

## BEEFMASTER

## GENOMIC BREEDING VALUE REPORT

September 2026



## ISHA

Herd Number: 709542

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**BEEFMASTER**  
CATTLE BREEDERS' SOCIETY OF SA  
BEESTELERSGENOOTSAP VAN SA



# EBVs, EBVi's and GEBVs

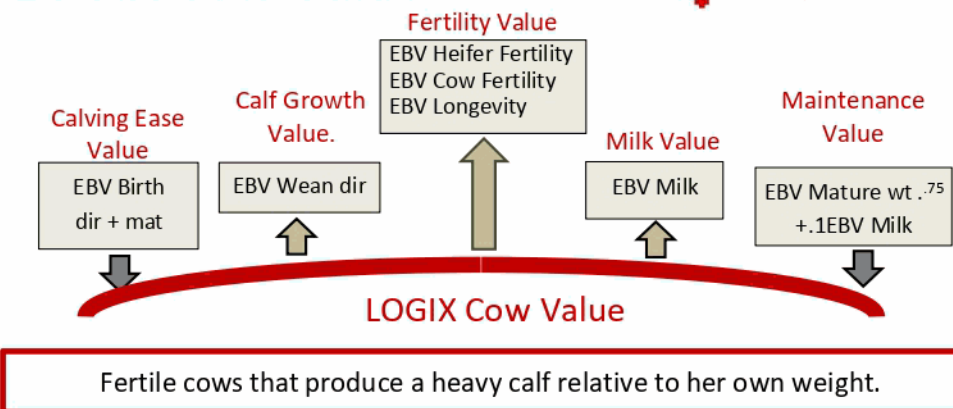
**EBVi (Breeding Value Index):** Genetic potential relative to the average (100) of the live (active) animals in the breed. Roughly 50% of the animals have values between 90 and 110. Values above 100, depending on the trait, tend to be in the more favourable direction.

**EBV (Breeding Value):** Genetic potential relative to the average of the animals born in the base year (1990), expressed in the unit of measurement.

**GEBV (Genomic Breeding Value)** Interpreted like the EBVi. (GEBV = EBV + Genomic information)

**LOGIX Selection values** combine different breeding values in a logical way. For example, Heifer Fertility (how early a heifer starts calving), Cow Fertility (how regular she calves) and Longevity (retention within the family) are combined to form the Fertility Value.

## LOGIX Cow Value



## Selection Values

### LOGIX Cow Value



Selecting for:

- fertile,
- low maintenance,
- easy calving cows
- with heavy weaners

### LOGIX Growth Value



Select for efficient growers on veld and in feedlot, as measured in Phase C and D Growth Tests.

### LOGIX Carcass Value



Select for more meat on the carcass as measured from end weight in Phase C and D Growth Tests and RTU scanning.

### LOGIX Production Value



80% LOGIX Cow Value +  
20% LOGIX Growth Value

## How to use the Cow Value

Selection values should be compatible with your selection goal.

### AVERAGE ANIMALS

(NO GROWTH EXTREMES)

- Selection Values 90 to 110
  - Cow Value and Fertility Value average to high
- A safe choice, as animals are profitable in most environments.

### GROWERS

(GOOD ENVIRONMENT)

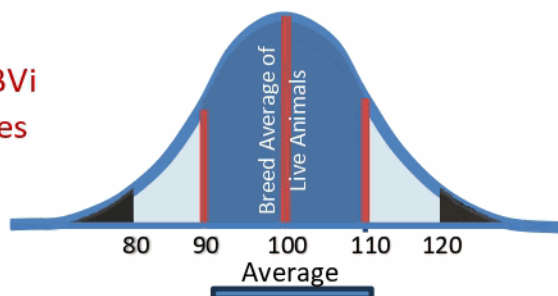
- WeanerCalf / Growth Value > 120
  - Cow Value and Fertility Value average to high
- Growers are usually heavier at birth (lower Calving Ease Value), and maturity (lower Maintenance Value).

### LOW- MAINTENANCE ANIMALS

(HARSH ENVIRONMENT)

- Maintenance Value >110
  - Cow Value and Fertility Value average to high
- Lighter cows have a lower maintenance.

## Interpretation of EBVi and Selection Values



## Examples

| Type of Animal  | Cow Value | Calving Ease V | Weaner Calf V | Milk Value | Maint. Value | Fertility Value |
|-----------------|-----------|----------------|---------------|------------|--------------|-----------------|
| Average         | Med-High  | Avg            | Avg           | Avg        | Avg          | Med-High        |
| Grower          | Med-High  |                | High          |            |              | Med-High        |
| Low Maintenance | Med-High  |                |               |            | High         | Med-High        |

# Contemporary Groups

The correct composition of contemporary groups is one of the cornerstones of BLUP breeding value estimation. Breeding values are estimated from the differences between animals exposed to the same environment, ***as these differences are caused by genetics***. The following aspects are important:

## 1. Animals at the same time, place and treatment

A contemporary group is a comparable group of animals measured at the same time in the same environment. It is therefore a comparable group of animals that were together on the same farm or camp in the same year and season. If there are animals in the group that were treated differently, they should be given a separate treatment code because their performance is influenced by other environmental influences than the rest of the group. Examples of possible different treatments are when some animals received supplements or creep feed, sale or show animals, embryo donors, sick or foster calves or even purchased cows and calves. If bull and heifer calves or older cows and young heifers were in the same camp, they should be placed in the same group – corrections for sex, age and first calving of cows are automatically made during breeding value estimation.

## 2. Progeny of at least two sires, of which one is a link sire

The progeny of different sires needs to be compared in the same group in order to determine the sires' genetic merit relative to each other. At least one sire should be a link sire with progeny in other herds. Genetic links between herds are used to determine the position of sires in the breed. All sires are good link sires. Smaller herds could artificially inseminate some cows or allow some cows to be covered by another herd's bull.

## 3. Larger groups stabilise Breeding Values

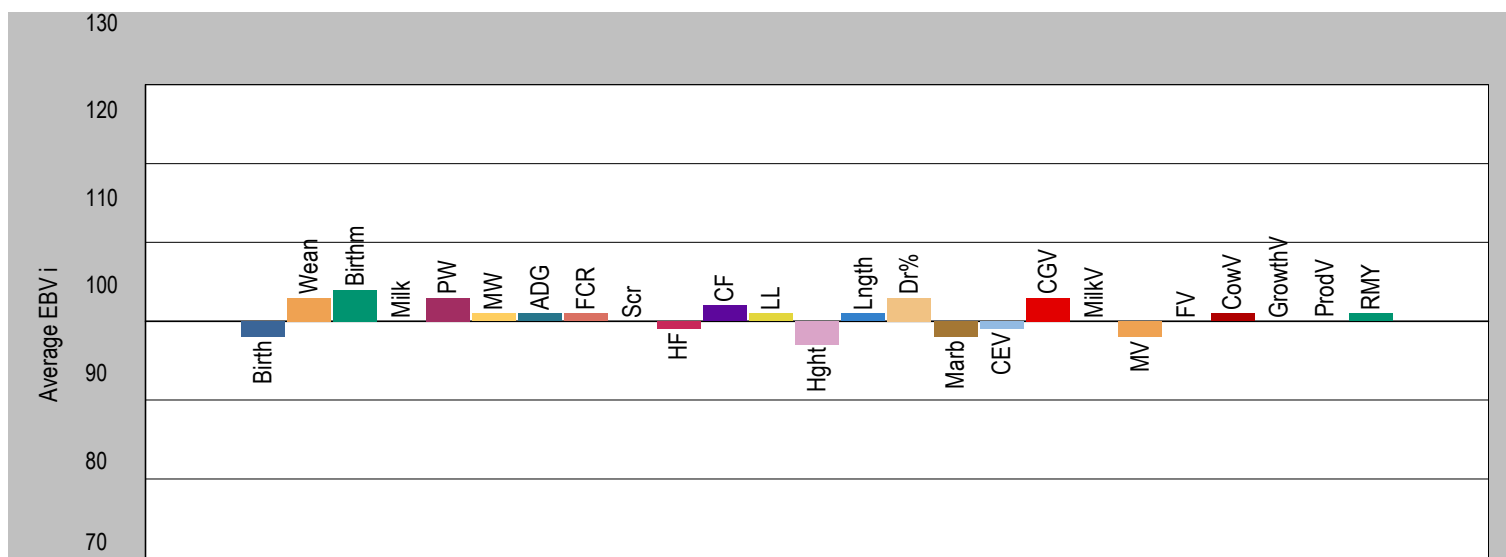
Larger groups result in more accurate and stable breeding values, as the mean and distribution of the group can be more accurately determined and are thus more representative. Groups should preferably have more than 5 animals. Weigh all the animals in the same group on the same day, as corrections for age differences are made during genetic evaluation. The use of breeding seasons rather than through the year calving will also increase contemporary group size. Groups with less than 3 animals are not included in breeding value estimation. An accidental mistake in a small group affects the animal itself, its family, all the other animals in the group and their families. The effect could be much less in large groups.

## 4. Measure all animals in the contemporary group

Weigh ALL the animals in the contemporary group, the good as well as the poor performers. Weigh animals before they are culled, so their parents can be penalized for their poor breeding.



## Herd and Breed Averages



### Breeding Values:

|         |                    |        |                  |
|---------|--------------------|--------|------------------|
| Birth:  | Birth weight       | Scr:   | Scrotal circumf. |
| Wean:   | Weaning weight     | HF:    | Heifer Fertility |
| Birthm: | Birth maternal     | CF:    | Cow Fertility    |
| Milk:   | Milk               | LL:    | Longevity        |
| PW:     | Post-wean weight   | Hght:  | Height           |
| MW:     | Mature weight      | Lngth: | Length           |
| ADG:    | Average Daily Gain | EMA:   | Eye Muscle Area  |
| FCR:    | Feed Conversion    | RMY:   | Carcass Value    |
|         | Ratio              | Marb:  | Marbling         |

### Selection Values:

|          |                       |
|----------|-----------------------|
| CEV:     | Calving Ease Value    |
| CGV:     | Calf Growth Value     |
| MilkV:   | Milk Value            |
| MV:      | Maintenance Value     |
| FV:      | Fertility Value       |
| CowV:    | Cow Value (CV)        |
| GrowthV: | Growth Value (GV)     |
| ProdV:   | Production Value (PV) |

|                 | Trait            | EBV Herd | EBV Index | EBV Breed |
|-----------------|------------------|----------|-----------|-----------|
| Prewrite Growth | Birth Weight     | 0.53     | 98        | 0.34      |
|                 | Wean Weight      | 14.1     | 103       | 12.1      |
|                 | Birth Mat.       | -0.23    | 104       | -0.05     |
|                 | Milk (Wn.Mat.)   | -1.4     | 100       | -1.4      |
| Postwean Growth | Postwean Wt      | 21.0     | 103       | 19.0      |
|                 | Mature Weight    | 9        | 101       | 7         |
|                 | ADG              | 75       | 101       | 72        |
|                 | FCR              | -40      | 101       | -39       |
| Fertility       | Scrotal Circumf. | 11.4     | 100       | 11.1      |
|                 | Heifer Fertility | -6.3     | 99        | -7.5      |
|                 | Cow Fertility    | -4.5     | 102       | -4.1      |
|                 | Longevity        | 15.4     | 101       | 14.8      |
| Frame           | Height           | 0        | 97        | 1         |
|                 | Length           | 14       | 101       | 13        |
| Carcass         | EMA              | 1.23     | 104       | 0.85      |
|                 | Fat              | -0.11    | 96        | 0.11      |
|                 | Marbling         | 0.21     | 98        | 0.30      |

| Selection Value  | Ave. Herd |
|------------------|-----------|
| Calving Ease     | 99        |
| Calf Growth      | 103       |
| Milk             | 100       |
| Maintenance      | 98        |
| Fertility        | 100       |
| Cow Value        | 101       |
| Growth Value     | 100       |
| Production Value | 100       |
| Carcass Value    | 101       |

- Average of live animals in the breed: 100
- Above 100: **more favourable**,
- Below 100: **less favourable**

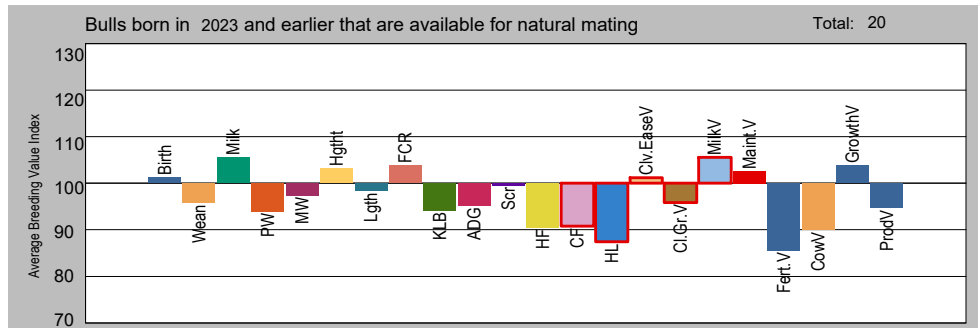
*What does a sub-selection value above breed average (100) mean?:*

|               |                                                                  |
|---------------|------------------------------------------------------------------|
| Calving ease: | Smaller calf at birth - easier calving                           |
| Calf growth:  | Heavier calves at wean due to growth potential of the calf       |
| Milk:         | Cows with more milk and better mothering ability                 |
| Maintenance:  | Animals with low maintenance requirements (lower mature weight). |
| Fertility:    | Cows/daughters that calve                                        |

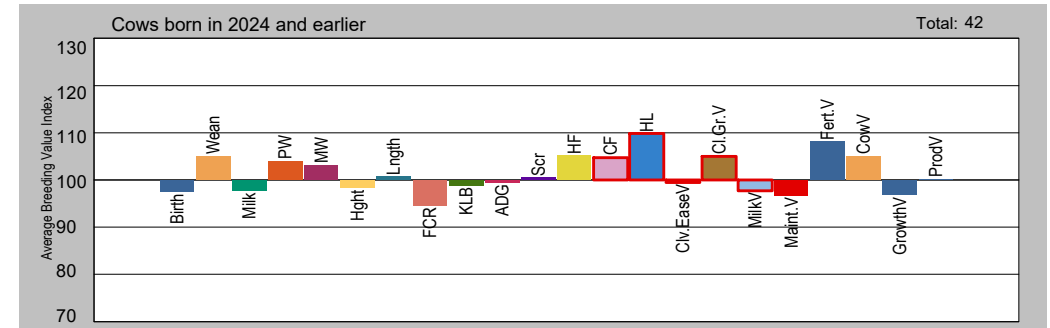
# Genetic Windows

## Animals available for breeding

### Bulls on the farm

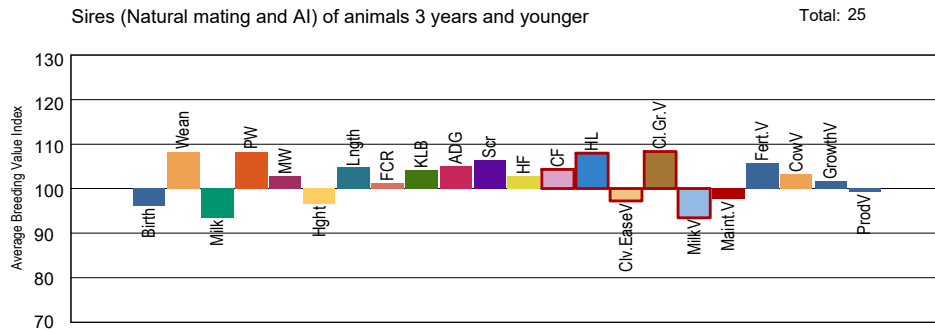


### Cow Herd

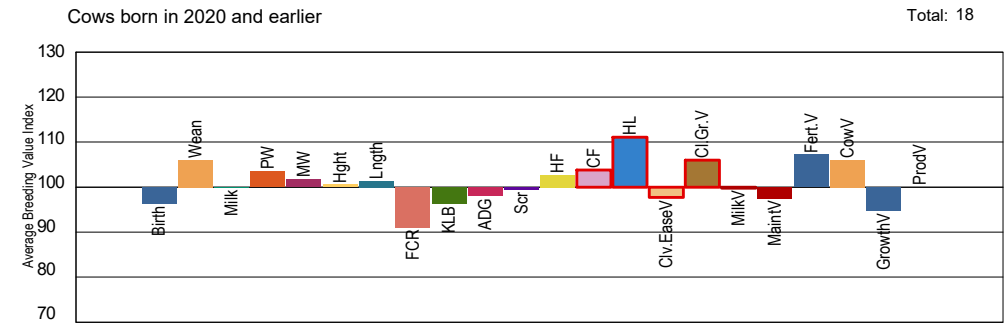


## Results of previous selection decisions

### Sires of young animals

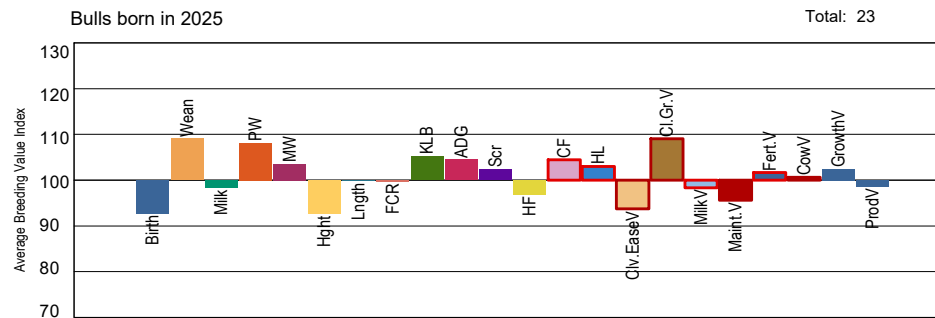


### Cows older than 6 years

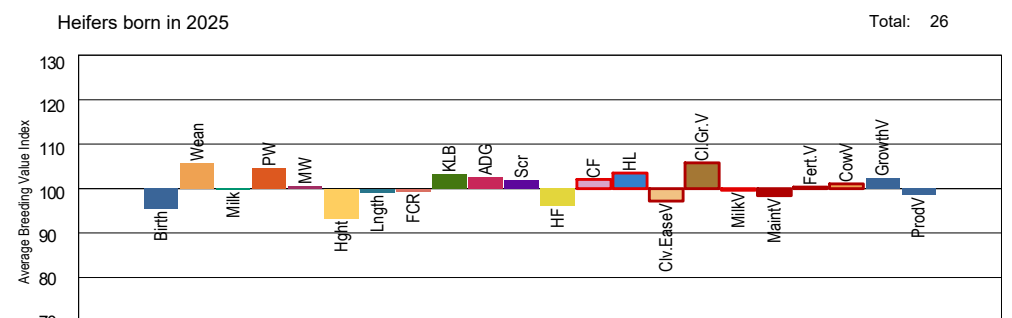


## Selection possibilities

### Bull calves



### Heifer calves

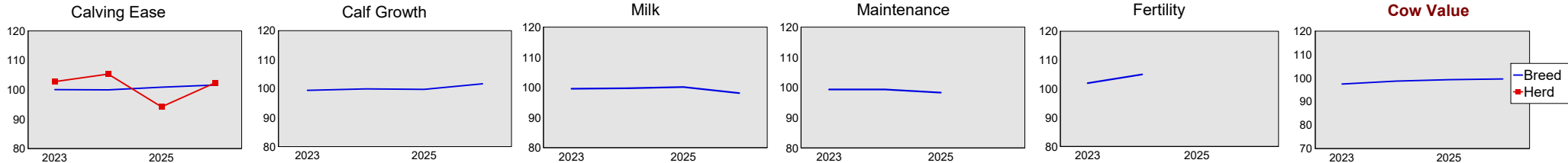


## Summary of Cow Herd

|                       |          |                   | Selection Values (SV)  |            |      |        |           |           |              |            | Calf Weight  |             | Dam        |               | Growth & Efficiency |               |     |         | Fertiity         |                  |               |           | Frame  |        |
|-----------------------|----------|-------------------|------------------------|------------|------|--------|-----------|-----------|--------------|------------|--------------|-------------|------------|---------------|---------------------|---------------|-----|---------|------------------|------------------|---------------|-----------|--------|--------|
| Birth Year            | No. Cows | Average Cow Value | Calving Ease           | Calf Grwth | Milk | Maint. | Fertility | Cow Value | Growth Value | Prod Value | Birth Weight | Wean Weight | Birth Mat. | Milk (Wn.Mat) | Postwn Weight       | Mature Weight | ADG | Kleiber | Scrotal Circumf. | Heifer Fertility | Cow Fertility | Longevity | Height | Length |
|                       |          |                   | Cows in Breed Average: |            |      |        |           |           |              |            |              |             | 100        | 99            | 100                 | 101           | 100 | 100     | 99               | 100              | 100           | 99        | 100    | 99     |
| 2014                  | 1        | ★★★★☆             | 69                     | 125        | 114  | 94     | 95        | 107       | 105          | 103        | 72           | 125         | 92         | 114           | 117                 | 103           | 112 | 108     | 121              | 70               | 104           | 113       | 103    | 112    |
| 2015                  | 1        | ★★★★★             | 101                    | 126        | 100  | 95     | 117       | 130       | 102          | 124        | 96           | 126         | 124        | 100           | 120                 | 103           | 110 | 107     | 110              | 119              | 113           | 109       | 116    | 109    |
| 2016                  | 1        | ★★★★☆             | 107                    | 105        | 90   | 107    | 100       | 104       | 89           | 97         | 104          | 105         | 104        | 90            | 104                 | 94            | 94  | 92      | 101              | 76               | 110           | 112       | 101    | 97     |
| 2018                  | 3        | ★★★★☆             | 101                    | 99         | 103  | 104    | 104       | 104       | 95           | 99         | 99           | 99          | 104        | 103           | 98                  | 96            | 96  | 95      | 101              | 97               | 102           | 110       | 98     | 99     |
| 2019                  | 8        | ★★★★☆             | 97                     | 106        | 96   | 95     | 109       | 103       | 93           | 96         | 95           | 106         | 108        | 96            | 103                 | 105           | 97  | 95      | 92               | 108              | 102           | 112       | 97     | 101    |
| 2020                  | 6        | ★★★★☆             | 101                    | 97         | 105  | 98     | 103       | 109       | 95           | 102        | 102          | 97          | 100        | 105           | 95                  | 101           | 96  | 96      | 105              | 101              | 102           | 101       | 106    | 100    |
| 2021                  | 8        | ★★★★☆             | 104                    | 107        | 97   | 93     | 110       | 107       | 103          | 107        | 102          | 107         | 106        | 97            | 107                 | 108           | 105 | 105     | 104              | 110              | 108           | 107       | 100    | 103    |
| 2022                  | 3        | ★★★★☆             | 99                     | 105        | 94   | 93     | 120       | 109       | 99           | 103        | 97           | 105         | 106        | 94            | 104                 | 106           | 105 | 106     | 111              | 122              | 116           | 111       | 93     | 100    |
| 2023                  | 11       | ★★★★              | 103                    | 92         | 102  | 109    | 86        | 91        | 83           | 97         | 103          | 92          | 97         | 102           | 90                  | 91            | 85  | 85      | 90               | 95               | 91            | 85        | 97     | 91     |
| 2024                  | 11       | ★★★★☆             | 96                     | 103        | 99   | 96     | 105       | 100       | 99           | 93         | 93           | 103         | 110        | 99            | 103                 | 104           | 99  | 99      | 97               | 100              | 104           | 109       | 97     | 99     |
| 2025                  | 26       | ★★★★☆             | 97                     | 106        | 100  | 98     | 100       | 101       | 102          | 99         | 96           | 106         | 107        | 100           | 105                 | 101           | 103 | 103     | 102              | 96               | 102           | 104       | 93     | 99     |
| 2026                  | 15       | ★★★★☆             | 96                     | 107        | 95   | 98     | 106       | 103       | 94           | 99         | 96           | 107         | 110        | 95            | 105                 | 101           | 100 | 98      | 102              | 100              | 110           | 104       | 95     | 102    |
| Cows in Herd Average: |          |                   | 98                     | 107        | 100  | 98     | 105       | 106       | 97           | 102        | 96           | 107         | 106        | 100           | 104                 | 101           | 100 | 99      | 103              | 100              | 105           | 106       | 100    | 101    |

# Genetic Trends for On-Farm Traits

The graphs show the genetic gain of the herd relative to the breed. Only data of animals with measurements are included.



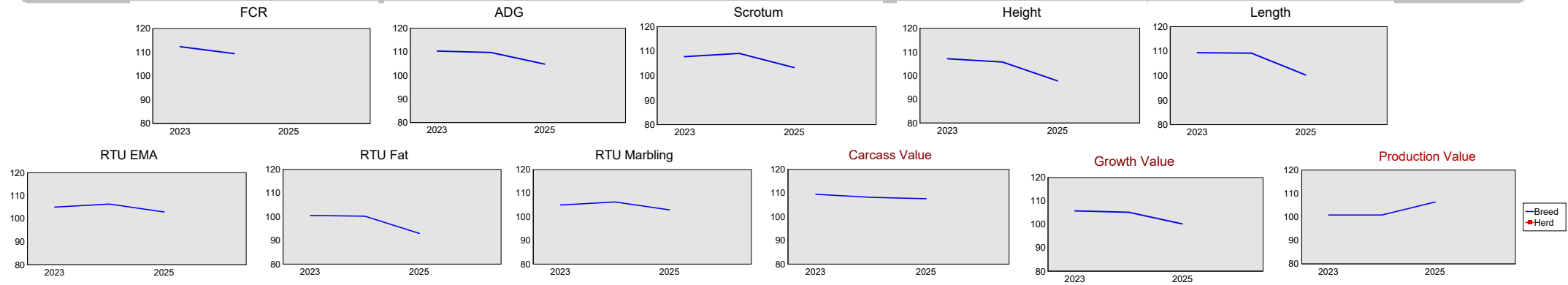
## Herd

| Birth Year | Calving Ease |         |         |            | Calf Growth    |     |             | Milk           |     | Maintenance     |     |               |     | Fertility   |              |     |           |     |           | Cow Value |           |     |
|------------|--------------|---------|---------|------------|----------------|-----|-------------|----------------|-----|-----------------|-----|---------------|-----|-------------|--------------|-----|-----------|-----|-----------|-----------|-----------|-----|
|            | Birth Weight |         | Mat EBV | Calv. Ease | Weaning Weight |     | Calf Growth | Milk (Wn.Mat.) |     | Postwean Weight |     | Mature Weight |     | Maintenance | Heifer Fert. |     | Cow Fert. |     | Longevity |           | Fertility |     |
|            | Number       | Dir EBV |         |            | Number         | EBV |             | Number         | EBV | Number          | EBV | Number        | EBV |             | Number       | EBV | Number    | EBV | Number    |           |           | EBV |
| 2023       | 20           | 0.11    | 0.10    | 103        |                |     |             |                |     |                 |     |               |     |             |              |     |           |     |           |           |           |     |
| 2024       | 3            | 0.08    | -0.28   | 105        |                |     |             |                |     |                 |     |               |     |             |              |     |           |     |           |           |           |     |
| 2025       | 14           | 0.83    | -0.12   | 94         |                |     |             |                |     |                 |     |               |     |             |              |     |           |     |           |           |           |     |
| 2026       | 13           | 0.18    | -0.05   | 102        |                |     |             |                |     |                 |     |               |     |             |              |     |           |     |           |           |           |     |
|            |              |         |         |            |                |     |             |                |     |                 |     |               |     |             |              |     |           |     |           |           |           |     |

## Breed

| Birth Year | Calving Ease |         |         |            | Calf Growth    |      |             | Milk           |       |                 | Maintenance |               |      |              |              | Fertility |           |      |           |       |            | Cow Value |        |     |
|------------|--------------|---------|---------|------------|----------------|------|-------------|----------------|-------|-----------------|-------------|---------------|------|--------------|--------------|-----------|-----------|------|-----------|-------|------------|-----------|--------|-----|
|            | Birth Weight |         | Mat EBV | Calv. Ease | Weaning Weight |      | Calf Growth | Milk (Wn.Mat.) |       | Postwean Weight |             | Mature Weight |      | Mainte-nance | Heifer Fert. |           | Cow Fert. |      | Longevity |       | Ferti-lity |           |        |     |
|            | Number       | Dir EBV |         |            | Number         | EBV  |             | Number         | EBV   | Number          | EBV         | Number        | EBV  |              | Number       | EBV       | Number    | EBV  | Number    | EBV   |            |           | Number | EBV |
| 2016       | 13219        | 0.14    | 0.07    | 102        | 12679          | 9.1  | 95          | 12679          | -1.48 | 100             | 8440        | 15.3          | 1794 | 3            | 102          | 3547      | -3.4      | 2382 | -3.3      | 17317 | 7.0        | 92        | 91     |     |
| 2017       | 13995        | 0.13    | 0.10    | 101        | 13543          | 9.5  | 95          | 13543          | -1.37 | 100             | 9155        | 16.1          | 1876 | 5            | 102          | 3705      | -3.9      | 2610 | -3.3      | 17744 | 7.7        | 93        | 92     |     |
| 2018       | 14638        | 0.19    | 0.05    | 101        | 14085          | 10.0 | 96          | 14085          | -1.34 | 100             | 9471        | 16.9          | 2043 | 6            | 101          | 3752      | -4.9      | 2671 | -3.5      | 18478 | 8.4        | 96        | 93     |     |
| 2019       | 14156        | 0.27    | 0.02    | 100        | 13892          | 10.8 | 98          | 13892          | -1.52 | 100             | 9219        | 18.0          | 2528 | 6            | 101          | 4491      | -5.8      | 3152 | -3.8      | 18218 | 9.0        | 97        | 94     |     |
| 2020       | 15148        | 0.25    | 0.00    | 101        | 15376          | 10.8 | 98          | 15376          | -1.55 | 99              | 10390       | 17.9          | 2588 | 6            | 100          | 4524      | -5.8      | 3018 | -3.8      | 19306 | 9.7        | 97        | 94     |     |
| 2021       | 16009        | 0.27    | 0.04    | 100        | 16004          | 10.8 | 98          | 16004          | -1.35 | 100             | 10852       | 18.0          | 2635 | 6            | 100          | 4750      | -5.2      | 2794 | -3.8      | 18490 | 8.9        | 97        | 95     |     |
| 2022       | 17601        | 0.32    | -0.01   | 100        | 16942          | 11.8 | 99          | 16942          | -1.58 | 99              | 11576       | 19.5          | 2295 | 8            | 100          | 4355      | -6.7      | 1065 | -4.2      | 8636  | 9.8        | 100       | 97     |     |
| 2023       | 18573        | 0.32    | -0.02   | 100        | 18307          | 11.8 | 99          | 18307          | -1.53 | 100             | 11750       | 19.7          | 741  | 11           | 99           | 2183      | -7.2      | 100  | -4.8      |       |            | 102       | 98     |     |
| 2024       | 18117        | 0.35    | -0.05   | 100        | 16963          | 12.1 | 100         | 16963          | -1.48 | 100             | 9904        | 20.0          | 3    | 6            | 99           | 166       | -7.7      |      |           |       |            | 105       | 99     |     |
| 2025       | 17947        | 0.27    | -0.03   | 101        | 15468          | 12.0 | 100         | 15468          | -1.38 | 100             | 2468        | 22.0          |      |              | 98           |           |           |      |           |       |            |           |        | 99  |
| 2026       | 5644         | 0.19    | 0.00    | 102        | 192            | 13.1 | 102         | 192            | -1.95 | 98              |             |               |      |              |              |           |           |      |           |       |            |           |        | 100 |

# Genetic Trends for Growth Test Traits



## Herd

| Birth Year | Growth |     |      |        |     |      |         |     |      | Frame  |     |      |        |     |      | Carcass    |     |      |     |      |          | Selection Values |               |              |            |
|------------|--------|-----|------|--------|-----|------|---------|-----|------|--------|-----|------|--------|-----|------|------------|-----|------|-----|------|----------|------------------|---------------|--------------|------------|
|            | FCR    |     |      | ADG    |     |      | Scrotum |     |      | Height |     |      | Length |     |      | EMA        |     |      | Fat |      | Marbling |                  | Carcass Value | Growth Value | Prod Value |
|            | Number | EBV | EBVi | Number | EBV | EBVi | Number  | EBV | EBVi | Number | EBV | EBVi | Number | EBV | EBVi | RTU Number | EBV | EBVi | EBV | EBVi | EBV      | EBVi             |               |              |            |
| 2023       |        |     |      |        |     |      |         |     |      |        |     |      |        |     |      |            |     |      |     |      |          |                  |               |              |            |
| 2024       |        |     |      |        |     |      |         |     |      |        |     |      |        |     |      |            |     |      |     |      |          |                  |               |              |            |
| 2025       |        |     |      |        |     |      |         |     |      |        |     |      |        |     |      |            |     |      |     |      |          |                  |               |              |            |
| 2026       |        |     |      |        |     |      |         |     |      |        |     |      |        |     |      |            |     |      |     |      |          |                  |               |              |            |

## Breed

| Birth Year | Growth |     |      |        |     |      |         |      |      | Frame  |     |      |        |     |      | Carcass       |      |      |       |      |          |      |                 | Selection Values |               |  |
|------------|--------|-----|------|--------|-----|------|---------|------|------|--------|-----|------|--------|-----|------|---------------|------|------|-------|------|----------|------|-----------------|------------------|---------------|--|
|            | FCR    |     |      | ADG    |     |      | Scrotum |      |      | Height |     |      | Length |     |      | RTU<br>Number | EMA  |      | Fat   |      | Marbling |      | Cracss<br>Value | Growth<br>Value  | Prod<br>Value |  |
|            | Number | EBV | EBVi | Number | EBV | EBVi | Number  | EBV  | EBVi | Number | EBV | EBVi | Number | EBV | EBVi |               | EBV  | EBVi | EBV   | EBVi | EBV      | EBVi |                 |                  |               |  |
| 2017       | 62     | -38 | 100  | 1015   | 76  | 101  | 979     | 12.8 | 103  | 953    | 4   | 105  | 953    | 15  | 102  | 101           | 0.00 | 91   | 0.00  | 98   | 0.00     | 95   | 93              | 97               | 91            |  |
| 2018       | 16     | -50 | 110  | 835    | 94  | 106  | 830     | 14.6 | 106  | 830    | 6   | 107  | 830    | 18  | 105  | 33            | 1.18 | 103  | 0.28  | 103  | 0.55     | 104  | 108             | 102              | 93            |  |
| 2019       | 13     | -43 | 103  | 772    | 95  | 106  | 773     | 14.5 | 106  | 767    | 6   | 108  | 766    | 19  | 106  | 32            | 0.58 | 97   | -0.14 | 96   | 0.44     | 102  | 100             | 101              | 94            |  |
| 2020       | 15     | -50 | 110  | 1035   | 102 | 108  | 1026    | 15.8 | 108  | 960    | 6   | 108  | 960    | 21  | 108  | 60            | 1.56 | 107  | -0.22 | 94   | 0.67     | 107  | 109             | 104              | 96            |  |
| 2021       | 20     | -40 | 101  | 1162   | 102 | 108  | 1151    | 15.5 | 108  | 1048   | 5   | 107  | 1048   | 21  | 108  | 148           | 1.41 | 106  | -0.20 | 95   | 0.46     | 103  | 106             | 104              | 97            |  |
| 2022       | 20     | -45 | 106  | 1222   | 104 | 109  | 1266    | 14.4 | 106  | 1115   | 5   | 106  | 1115   | 21  | 108  | 147           | 1.11 | 103  | -0.08 | 97   | 0.28     | 100  | 103             | 104              | 99            |  |
| 2023       | 10     | -52 | 112  | 1270   | 110 | 110  | 1263    | 15.5 | 108  | 1127   | 5   | 107  | 1127   | 22  | 109  | 250           | 1.52 | 107  | 0.14  | 101  | 0.58     | 105  | 109             | 106              | 101           |  |
| 2024       | 11     | -49 | 109  | 918    | 108 | 110  | 945     | 16.3 | 109  | 790    | 5   | 106  | 790    | 22  | 109  | 127           | 1.57 | 107  | 0.12  | 100  | 0.66     | 106  | 108             | 105              | 101           |  |
| 2025       |        |     |      | 54     | 90  | 105  | 58      | 13.0 | 103  | 58     | 0   | 98   | 58     | 14  | 100  | 25            | 1.70 | 109  | -0.30 | 93   | 0.47     | 103  | 108             | 100              | 106           |  |
| 2026       |        |     |      |        |     |      |         |      |      |        |     |      |        |     |      |               |      |      |       |      |          |      |                 |                  |               |  |

Sires

| Bull          |                                                                                     |                          |                        | Selection Values       |               |                 |                    |              |                 |               | Calf         |             | Dam           |              | Growth        |                  |     |     | Fertility |                     |                  |                | Frame  |        | Carcass |       |          | Measured Progeny       |                    |     |
|---------------|-------------------------------------------------------------------------------------|--------------------------|------------------------|------------------------|---------------|-----------------|--------------------|--------------|-----------------|---------------|--------------|-------------|---------------|--------------|---------------|------------------|-----|-----|-----------|---------------------|------------------|----------------|--------|--------|---------|-------|----------|------------------------|--------------------|-----|
| ID            | Index<br>EBV<br>Acc                                                                 | Sire ID<br>Dam ID        | Calv.<br>Ease<br>Value | Calf<br>Grwth<br>Value | Milk<br>Value | Maint.<br>Value | Fertility<br>Value | Cow<br>Value | Growth<br>Value | Prod<br>Value | Birth<br>Dir | Wean<br>Dir | Birth<br>Mat. | Wean<br>Mat. | Post wn<br>wt | Mature<br>weight | ADG | FCR | Scrotal   | Heifer<br>Fertility | Cow<br>Fertility | Long-evi<br>ty | Height | Length | EMA     | Fat   | Marbling | Birth<br>Grwth<br>Test | Wean<br>Dgt/Calvs. |     |
|               |                                                                                     |                          |                        |                        |               |                 |                    |              |                 |               |              |             |               |              |               |                  |     |     |           |                     |                  |                |        |        |         |       |          |                        |                    |     |
| BOS<br>110085 |    | WO 050636<br>BOS 088539  | 90                     | 112                    | 91            | 88              | 110                | 98           | 104             | 94            | 98           | 112         | 77            | 91           | 109           | 112              | 113 | 115 | 97        | 132                 | 107              | 89             | 110    | 104    | 105     | 124   | 107      | 142                    | 118                |     |
| BOS110085     |                                                                                     |                          | 96                     | 96                     | 92            | 84              | 90                 | 84           | 82              | 84            | 97           | 96          | 93            | 92           | 89            | 84               | 84  | 81  | 84        | 90                  | 85               | 94             | 84     | 84     | 81      | 81    | 81       | 1                      | 32                 | 69  |
| BOS<br>133097 |                                                                                     | WO 980062<br>BOS 033011  | 101                    | 114                    | 87            | 95              | 123                | 117          | 107             | 113           | 99           | 114         | 132           | 87           | 112           | 104              | 117 | 125 | 97        | 115                 | 127              | 112            | 83     | 103    | 115     | 105   | 94       | 5                      | 184                |     |
| BOS133097     |                                                                                     |                          | 88                     | 97                     | 95            | 72              | 90                 | 82           | 60              | 78            | 89           | 97          | 84            | 95           | 88            | 72               | 77  | 41  | 81        | 93                  | 83               | 93             | 81     | 80     | 62      | 59    | 58       | 5                      | 73                 | 202 |
| BOS<br>144056 |                                                                                     | BOS 099241<br>BOS 099139 | 78                     | 110                    | 85            | 74              | 101                | 73           | 79              | 66            | 83           | 110         | 91            | 85           | 108           | 132              | 87  | 79  | 75        | 105                 | 93               | 107            | 90     | 106    | 103     | 112   | 107      | 1                      | 63                 |     |
| BOS144056     |                                                                                     |                          | 78                     | 93                     | 89            | 64              | 78                 | 74           | 38              | 67            | 78           | 93          | 76            | 89           | 80            | 64               | 55  | 16  | 59        | 85                  | 63               | 87             | 59     | 58     | 44      | 40    | 39       |                        | 24                 | 91  |
| BOS<br>144062 |                                                                                     | BOS 099241<br>BOS 088419 | 89                     | 114                    | 98            | 94              | 109                | 107          | 102             | 103           | 87           | 114         | 128           | 98           | 112           | 104              | 103 | 90  | 80        | 116                 | 95               | 113            | 90     | 112    | 111     | 99    | 102      | 2                      | 49                 |     |
| BOS144062     |                                                                                     |                          | 76                     | 91                     | 87            | 64              | 77                 | 73           | 43              | 67            | 77           | 91          | 74            | 87           | 28.3          | 12               | 84  | -28 | -0.3      | -20.2               | -3.0             | 23.0           | -4     | 24     | 1.97    | 0.02  | 0.43     | 4                      | 27                 | 72  |
| BOS<br>144451 |    | BOS 099110<br>BOS 099053 | 94                     | 108                    | 89            | 109             | 142                | 143          | 97              | 135           | 94           | 108         | 138           | 89           | 111           | 93               | 105 | 99  | 87        | 136                 | 149              | 132            | 70     | 105    | 110     | 124   | 104      | 2                      | 305                |     |
| BOS144451     |                                                                                     |                          | 96                     | 99                     | 97            | 95              | 97                 | 89           | 94              | 90            | 96           | 99          | 95            | 97           | 27.3          | -1               | 92  | -38 | 3.6       | -35.7               | -13.9            | 34.8           | -16    | 18     | 1.86    | 1.48  | 0.54     | 2                      | 73                 | 216 |
| BOS<br>155069 |                                                                                     | BOS 099315<br>BOS 066082 | 96                     | 112                    | 101           | 87              | 102                | 101          | 103             | 97            | 93           | 112         | 111           | 101          | 111           | 113              | 106 | 93  | 102       | 98                  | 107              | 101            | 97     | 106    | 101     | 94    | 114      | 18                     | 57                 |     |
| BOS155069     |                                                                                     |                          | 82                     | 92                     | 84            | 67              | 74                 | 74           | 42              | 68            | 84           | 92          | 75            | 84           | 27.4          | 22               | 94  | -31 | 12.4      | -6.1                | -5.5             | 15.4           | -1     | 19     | 0.92    | -0.23 | 1.06     |                        | 19                 | 43  |
| BOS<br>155322 |                                                                                     | BOS 099197<br>BOS 033205 | 95                     | 123                    | 84            | 92              | 116                | 113          | 97              | 107           | 90           | 123         | 121           | 84           | 120           | 108              | 109 | 114 | 108       | 95                  | 129              | 112            | 94     | 106    | 114     | 124   | 119      |                        | 11                 |     |
| BOS155322     |                                                                                     |                          | 50                     | 78                     | 70            | 38              | 62                 | 56           | 33              | 51            | 51           | 78          | 48            | 70           | 34.4          | 16               | 107 | -54 | 15.7      | -3.4                | -10.0            | 22.2           | -2     | 19     | 2.20    | 1.48  | 1.35     | 1                      | 4                  | 7   |
| BOS<br>155687 |                                                                                     | WO 100126<br>BOS 122623  | 97                     | 114                    | 89            | 93              | 91                 | 92           | 116             | 91            | 94           | 114         | 111           | 89           | 117           | 106              | 110 | 91  | 109       | 108                 | 78               | 98             | 103    | 120    | 116     | 97    | 110      | 51                     | 137                |     |
| BOS155687     |                                                                                     |                          | 87                     | 95                     | 84            | 50              | 73                 | 73           | 48              | 68            | 91           | 95          | 75            | 84           | 32.0          | 13               | 110 | -29 | 16.1      | -13.4               | 0.4              | 13.8           | 3      | 33     | 2.40    | -0.05 | 0.85     | 11                     | 27                 | 44  |
| BOS<br>166052 |  | BOS 099315<br>BOS 066030 | 80                     | 113                    | 110           | 90              | 96                 | 97           | 118             | 96            | 81           | 113         | 101           | 110          | 115           | 108              | 123 | 118 | 112       | 103                 | 80               | 110            | 109    | 110    | 106     | 103   | 107      | 9                      | 104                |     |
| BOS166052     |                                                                                     |                          | 92                     | 96                     | 93            | 89              | 92                 | 85           | 88              | 86            | 92           | 96          | 90            | 93           | 30.4          | 16               | 155 | -59 | 18.0      | -9.6                | 0.0              | 20.8           | 6      | 23     | 1.46    | 0.30  | 0.72     | 1                      | 23                 | 45  |
| BOS<br>177663 |  | BOS 100441<br>BOS 100738 | 86                     | 122                    | 91            | 85              | 85                 | 84           | 114             | 84            | 83           | 122         | 112           | 91           | 123           | 116              | 120 | 114 | 102       | 72                  | 89               | 103            | 71     | 103    | 145     | 37    | 68       | 134                    | 118                |     |
| BOS177663     |                                                                                     |                          | 96                     | 97                     | 93            | 92              | 92                 | 86           | 92              | 87            | 97           | 97          | 93            | 93           | 37.1          | 25               | 145 | -54 | 12.1      | 14.7                | -1.8             | 16.8           | -15    | 16     | 5.28    | -3.58 | -1.53    | 28                     | 16                 | 22  |
| BOS<br>188138 |                                                                                     | BOS 155327<br>BOS 155370 | 136                    | 97                     | 97            | 131             | 98                 | 127          | 101             | 121           | 133          | 97          | 110           | 97           | 92            | 68               | 107 | 108 | 109       | 89                  | 100              | 106            | 93     | 96     | 107     | 87    | 99       | 30                     | 75                 |     |
| BOS188138     |                                                                                     |                          | 79                     | 92                     | 70            | 54              | 61                 | 67           | 34              | 60            | 84           | 92          | 62            | 70           | 12.5          | -29              | 98  | -48 | 16.0      | 1.0                 | -4.1             | 18.4           | -3     | 10     | 1.52    | -0.64 | 0.24     | 1                      | 8                  | 8   |

Sires

| Bull                                            |                     |                   | Selection Values |       |       |        |           |       |        | Calf  |       | Dam  |       | Growth |         |        |     | Fertility |         |        |           | Frame     |        | Carcass |      |      | Measured Progeny |       |      |       |
|-------------------------------------------------|---------------------|-------------------|------------------|-------|-------|--------|-----------|-------|--------|-------|-------|------|-------|--------|---------|--------|-----|-----------|---------|--------|-----------|-----------|--------|---------|------|------|------------------|-------|------|-------|
| ID                                              | Index<br>EBV<br>Acc | Sire ID<br>Dam ID | Calv.            | Calf  | Milk  | Maint. | Fertility | Cow   | Growth | Prod  | Birth | Wean | Birth | Wean   | Post wn | Mature | ADG | FCR       | Scrotal | Heifer | Cow       | Long-evi  | Height | Length  | EMA  | Fat  | Marbling         | Birth | Wean |       |
|                                                 |                     |                   | Ease             | Grwth | Value | Value  | Value     | Value | Value  | Value | Dir   | Dir  | Mat.  | Mat.   | wt      | weight |     |           |         |        | Fertility | Fertility | ty     |         |      |      |                  |       |      | Grwth |
| BOS 155327<br>BOS 166611<br>TOP GUN BOS 18 8154 |                     |                   | 70               | 122   | 71    | 94     | 107       | 87    | 90     | 81    | 72    | 122  | 143   | 71     | 113     | 106    | 107 | 110       | 121     | 87     | 110       | 117       | 93     | 111     | 124  | 103  | 111              | 494   | 467  |       |
|                                                 |                     |                   | 99               | 99    | 97    | 97     | 97        | 90    | 97     | 91    | 2.63  | 24.6 | -1.77 | -9.6   | 29.1    | 14     | 98  | -50       | 23.1    | 2.8    | -6.1      | 25.2      | -2     | 24      | 3.17 | 0.25 | 0.93             | 86    | 33   | 38    |
| BOS 155327<br>BOS 155624<br>BOS188650           |                     |                   | 121              | 104   | 68    | 122    | 99        | 105   | 105    | 102   | 116   | 104  | 128   | 68     | 103     | 82     | 110 | 108       | 119     | 84     | 103       | 110       | 96     | 104     | 111  | 99   | 103              | 7     | 97   |       |
|                                                 |                     |                   | 92               | 96    | 93    | 90     | 92        | 85    | 90     | 86    | 92    | 96   | 91    | 93     | 93      | 90     | 90  | 89        | 91      | 93     | 89        | 93        | 91     | 91      | 89   | 89   | 89               | 5     | 9    | 12    |
| BOS 122163<br>BOS 066097<br>BOS200043           |                     |                   | 76               | 103   | 98    | 93     | 107       | 89    | 96     | 85    | 77    | 103  | 136   | 98     | 100     | 105    | 100 | 93        | 94      | 98     | 106       | 112       | 88     | 98      | 100  | 101  | 97               | 6     | 62   |       |
|                                                 |                     |                   | 91               | 95    | 92    | 89     | 91        | 84    | 88     | 85    | 91    | 95   | 90    | 92     | 92      | 89     | 89  | 88        | 89      | 91     | 89        | 92        | 89     | 89      | 89   | 89   | 89               |       |      |       |
| BOS 166052<br>BOS 133268<br>BOS200450           |                     |                   | 80               | 114   | 101   | 83     | 100       | 92    | 109    | 90    | 81    | 114  | 103   | 101    | 117     | 117    | 116 | 111       | 97      | 92     | 96        | 111       | 107    | 113     | 108  | 98   | 103              | 1     | 4    |       |
|                                                 |                     |                   | 84               | 87    | 84    | 81     | 83        | 77    | 81     | 78    | 84    | 87   | 82    | 84     | 84      | 81     | 81  | 80        | 82      | 84     | 81        | 84        | 82     | 81      | 80   | 80   | 80               |       |      |       |
| BOS 177146<br>BOS 155068<br>BOS211266           |                     |                   | 89               | 120   | 93    | 85     | 131       | 120   | 89     | 112   | 89    | 120  | 102   | 93     | 119     | 116    | 96  | 95        | 104     | 111    | 133       | 128       | 95     | 106     | 110  | 120  | 109              | 2     | 45   |       |
|                                                 |                     |                   | 87               | 93    | 87    | 84     | 86        | 80    | 84     | 81    | 87    | 93   | 85    | 87     | 87      | 84     | 84  | 83        | 85      | 86     | 84        | 88        | 85     | 85      | 84   | 84   | 84               |       |      |       |
| CR 160021<br>CR 170136<br>CR200006              |                     |                   | 117              | 111   | 92    | 112    | 100       | 117   | 119    | 116   | 113   | 111  | 104   | 92     | 115     | 91     | 100 | 63        | 110     | 105    | 98        | 100       | 107    | 120     | 106  | 101  | 111              |       |      |       |
|                                                 |                     |                   | 83               | 83    | 81    | 79     | 80        | 74    | 81     | 75    | 83    | 83   | 81    | 81     | 82      | 79     | 83  | 77        | 85      | 80     | 78        | 82        | 86     | 85      | 77   | 77   | 77               |       |      |       |
| C889919<br>MAJ 010053<br>07 0622                |                     |                   | 103              | 113   | 107   | 95     | 86        | 101   | 109    | 98    | 106   | 113  | 91    | 107    | 110     | 102    | 115 | 102       | 92      | 119    | 66        | 88        | 116    | 125     | 119  | 115  | 117              | 411   | 393  |       |
|                                                 |                     |                   | 99               | 99    | 97    | 96     | 96        | 89    | 91     | 89    | 99    | 99   | 97    | 97     | 97      | 96     | 95  | 86        | 96      | 96     | 93        | 98        | 96     | 96      | 86   | 86   | 86               | 43    | 108  | 400   |
| WO 120465<br>MS 060067<br>MS150092              |                     |                   | 109              | 99    | 83    | 95     | 128       | 110   | 96     | 104   | 109   | 99   | 143   | 83     | 97      | 104    | 99  | 89        | 122     | 128    | 139       | 102       | 126    | 110     | 96   | 104  | 90               | 196   | 173  |       |
|                                                 |                     |                   | 96               | 97    | 94    | 91     | 92        | 86    | 89     | 87    | 97    | 97   | 94    | 94     | 94      | 91     | 91  | 86        | 93      | 93     | 88        | 94        | 93     | 92      | 86   | 86   | 86               | 18    | 42   | 97    |
| MS 140183<br>MS 140067<br>MS170370              |                     |                   | 104              | 99    | 112   | 102    | 106       | 112   | 89     | 105   | 99    | 99   | 112   | 112    | 101     | 96     | 88  | 73        | 99      | 103    | 106       | 107       | 91     | 102     | 105  | 106  | 97               | 29    | 26   |       |
|                                                 |                     |                   | 90               | 91    | 86    | 82     | 86        | 80    | 80     | 80    | 91    | 91   | 86    | 86     | 86      | 82     | 81  | 80        | 81      | 87     | 82        | 88        | 81     | 81      | 80   | 80   | 80               |       | 5    | 11    |
| WO 120465<br>MS 100515<br>MS170412              |                     |                   | 99               | 100   | 111   | 95     | 107       | 107   | 90     | 100   | 100   | 100  | 96    | 111    | 100     | 102    | 92  | 84        | 107     | 98     | 94        | 124       | 108    | 102     | 94   | 103  | 85               | 4     | 4    |       |
|                                                 |                     |                   | 70               | 71    | 66    | 38     | 50        | 55    | 22     | 48    | 72    | 71   | 62    | 66     | 54      | 38     | 35  | 6         | 38      | 56     | 34        | 59        | 39     | 38      | 8    | 8    | 7                |       | 3    | 7     |
| MS 130191<br>MS 160094<br>MS190080              |                     |                   | 86               | 122   | 76    | 85     | 114       | 98    | 109    | 95    | 88    | 122  | 97    | 76     | 122     | 117    | 116 | 112       | 115     | 111    | 123       | 100       | 79     | 105     | 119  | 111  | 108              | 237   | 124  |       |
|                                                 |                     |                   | 96               | 95    | 91    | 83     | 85        | 83    | 82     | 83    | 97    | 95   | 93    | 91     | 86      | 83     | 83  | 81        | 84      | 85     | 82        | 89        | 84     | 83      | 81   | 81   | 81               |       | 5    | 5     |

Sires

| Bull       |                     |            |            | Selection Values |            |            |              |                 |           |              | Calf       |           | Dam      |            | Growth    |            |               |     | Fertility |         |                  |               | Frame       |        | Carcass |       |       | Measured Progeny |                  |                 |
|------------|---------------------|------------|------------|------------------|------------|------------|--------------|-----------------|-----------|--------------|------------|-----------|----------|------------|-----------|------------|---------------|-----|-----------|---------|------------------|---------------|-------------|--------|---------|-------|-------|------------------|------------------|-----------------|
| ID         | Index<br>EBV<br>Acc | Sire ID    | Dam ID     | Calv. Ease       | Calf Grwth | Milk Value | Maint. Value | Fertility Value | Cow Value | Growth Value | Prod Value | Birth Dir | Wean Dir | Birth Mat. | Wean Mat. | Post wn wt | Mature weight | ADG | FCR       | Scrotal | Heifer Fertility | Cow Fertility | Long-evi ty | Height | Length  | EMA   | Fat   | Marbling         | Birth Grwth Test | Wean Dgt/Calvs. |
|            |                     |            |            | Value            | Value      |            |              |                 |           |              |            |           |          |            |           |            |               |     |           |         |                  |               |             |        |         |       |       |                  |                  |                 |
| MS 200305  |                     | MS 170370  | MS 150018  | 112              | 83         | 122        | 108          | 90              | 100       |              |            | 111       | 83       | 99         | 122       | 84         | 92            | 84  | 81        | 93      | 89               | 91            | 98          | 94     | 94      | 87    | 95    | 86               | 2                |                 |
| MS200305   |                     |            |            | 63               | 63         | 50         | 21           | 41              | 45        |              |            | -0.60     | 2.3      | -0.01      | 4.8       | 6.8        | -2            | 13  | -18       | 6.9     | 1.1              | -2.4          | 13.3        | -2     | 8       | -0.42 | -0.21 | -0.51            |                  |                 |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 67        | 63       | 49         | 50        | 41         | 21            | 19  | 11        | 20      | 45               | 25            | 52          | 20     | 19      | 13    | 12    | 12               |                  |                 |
| MS 210012  |                     | MS 150092  | MS 110032  | 116              | 90         | 92         | 103          | 111             | 104       | 82           | 95         | 109       | 90       | 121        | 92        | 88         | 96            | 87  |           | 102     | 112              | 114           | 101         | 108    | 94      |       |       |                  | 2                |                 |
| MS210012   |                     |            |            | 68               | 68         | 61         | 35           | 47              | 52        | 23           | 46         | -0.40     | 6.5      | -0.88      | -3.6      | 9.6        | 2             | 24  |           | 12.2    | -16.8            | -6.9          | 15.7        | 6      | 8       |       |       |                  |                  |                 |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 71        | 68       | 59         | 61        | 54         | 35            | 40  |           | 43      | 50               | 32            | 58          | 43     | 42      |       |       |                  |                  |                 |
| MS 210062  |                     | MS 150092  | MS 160038  | 88               | 96         | 108        | 98           | 109             | 99        | 86           | 92         | 88        | 96       | 136        | 108       | 90         | 99            | 92  |           | 106     | 103              | 111           | 107         | 114    | 100     |       |       |                  | 17               | 17              |
| MS210062   |                     |            |            | 76               | 79         | 57         | 35           | 47              | 55        | 23           | 49         | 1.31      | 9.6      | -1.47      | 0.7       | 11.2       | 6             | 43  |           | 14.7    | -10.0            | -6.3          | 19.4        | 9      | 14      |       |       |                  |                  |                 |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 81        | 79       | 58         | 57        | 62         | 35            | 40  |           | 43      | 50               | 31            | 59          | 43     | 42      |       |       |                  |                  |                 |
| OBS 180168 |                     | OBS 140279 | BOS 100801 | 120              | 100        | 55         | 126          | 104             | 100       | 86           | 93         | 116       | 100      | 107        | 55        | 94         | 78            | 84  | 90        | 76      | 104              | 101           | 106         | 72     | 71      | 79    | 93    | 101              | 209              | 209             |
| OBS18168   |                     |            |            | 97               | 98         | 94         | 92           | 93              | 87        | 93           | 88         | -0.97     | 12.1     | -0.34      | -13.9     | 14.0       | -18           | 15  | -28       | -2.3    | -10.4            | -4.3          | 18.4        | -15    | -14     | -1.16 | -0.30 | 0.36             | 28               | 27 33           |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 98        | 98       | 94         | 94        | 96         | 92            | 94  | 91        | 95      | 94               | 91            | 94          | 94     | 93      | 91    | 91    | 91               |                  |                 |
| OKT 100051 |                     | OKT 060018 | OKT 010006 | 99               | 113        | 114        | 109          | 90              | 115       | 97           | 109        | 104       | 113      | 85         | 114       | 110        | 91            | 103 | 96        | 116     | 62               | 100           | 112         | 103    | 106     | 104   | 106   | 113              | 42               | 40              |
| OKT100051  |                     |            |            | 90               | 91         | 86         | 71           | 69              | 75        | 34           | 67         | 0.04      | 19.9     | 0.54       | 2.4       | 26.9       | -3            | 84  | -35       | 20.4    | 22.0             | -4.0          | 22.1        | 3      | 19      | 1.26  | 0.43  | 1.04             |                  | 13 64           |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 91        | 91       | 85         | 86        | 84         | 71            | 54  | 8         | 59      | 78               | 44            | 86          | 60     | 58      | 37    | 34    | 33               |                  |                 |
| OKT 160116 |                     | BOS 122346 | BOS 077277 | 97               | 113        | 72         | 82           | 114             | 91        | 110          | 90         | 105       | 113      | 75         | 72        | 111        | 122           | 113 | 104       | 118     | 99               | 115           | 117         | 135    | 125     | 109   | 116   | 111              | 49               | 35              |
| OKT 160116 |                     |            |            | 87               | 87         | 68         | 52           | 57              | 65        | 38           | 60         | -0.06     | 19.7     | 0.93       | -9.3      | 27.8       | 32            | 119 | -44       | 21.6    | -7.1             | -7.1          | 25.6        | 22     | 37      | 1.77  | 1.05  | 0.89             | 5                | 2 2             |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 91        | 87       | 74         | 68        | 73         | 52            | 60  | 8         | 67      | 59               | 42            | 71          | 69     | 66      | 17    | 16    | 15               |                  |                 |
| RLR 170031 |                     | RLR 140049 | RLR 130105 | 83               | 117        | 138        | 107          | 99              | 130       | 80           | 119        | 88        | 117      | 89         | 138       | 112        | 92            | 94  | 111       | 127     | 113              | 69            | 117         | 67     | 90      | 91    | 59    | 111              | 72               | 64              |
| RLR 170031 |                     |            |            | 95               | 95         | 92         | 91           | 91              | 85        | 92           | 86         | 1.37      | 22.0     | 0.37       | 9.3       | 28.5       | -2            | 49  | -51       | 26.3    | -18.0            | 2.1           | 25.6        | -18    | 4       | -0.01 | -2.28 | 0.92             | 15               | 14 21           |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 96        | 95       | 92         | 92        | 94         | 91            | 93  | 90        | 94      | 91               | 89            | 92          | 94     | 94      | 92    | 91    | 91               |                  |                 |
| SCH 120054 |                     | PEN 040424 |            | 118              | 114        | 98         | 116          | 96              | 123       | 99           | 117        | 114       | 114      | 107        | 98        | 109        | 86            | 109 |           | 106     | 98               | 94            | 100         | 100    | 103     |       |       |                  | 23               | 23              |
| SCH120054  |                     |            |            | 82               | 84         | 77         | 69           | 58              | 68        | 39           | 62         | -0.80     | 20.0     | -0.31      | -1.9      | 26.0       | -9            | 105 |           | 14.8    | -5.9             | -2.8          | 14.7        | 1      | 16      |       |       |                  | 7                | 9 35            |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 85        | 84       | 73         | 77        | 47         | 69            | 72  |           | 78      | 65               | 36            | 73          | 79     | 77      |       |       |                  |                  |                 |
| SCH 150018 |                     | SCH 110120 | SCH 130021 | 113              | 127        | 81         | 69           | 132             | 122       | 121          | 120        | 144       | 127      | 81         | 81        | 137        | 142           | 131 | 120       | 100     | 123              | 149           | 102         | 103    | 128     | 131   | 123   | 104              | 112              | 120             |
| SCH150018  |                     |            |            | 96               | 97         | 94         | 93           | 92              | 87        | 91           | 88         | -3.33     | 27.8     | 0.71       | -6.9      | 47.8       | 55            | 186 | -61       | 10.9    | -25.2            | -13.9         | 16.0        | 3      | 40      | 3.87  | 1.44  | 0.54             | 45               | 36 83           |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 97        | 97       | 93         | 94        | 94         | 93            | 95  | 86        | 96      | 93               | 88            | 94          | 96     | 96      | 86    | 86    | 86               |                  |                 |
| SCH 170105 |                     | SCH 150018 | SCH 150175 | 122              | 105        | 84         | 78           | 126             | 110       | 93           | 103        | 121       | 105      | 95         | 84        | 112        | 127           | 98  | 78        | 93      | 115              | 139           | 107         | 103    | 120     | 106   | 105   | 93               | 140              | 135             |
| SCH170105  |                     |            |            | 96               | 97         | 94         | 93           | 92              | 87        | 92           | 88         | -1.42     | 15.0     | 0.15       | -6.0      | 28.4       | 38            | 65  | -15       | 7.0     | -19.1            | -11.8         | 19.1        | 3      | 32      | 1.46  | 0.40  | -0.11            | 37               | 32 58           |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 97        | 97       | 94         | 94        | 92         | 93            | 95  | 88        | 96      | 93               | 90            | 94          | 96     | 96      | 88    | 88    | 88               |                  |                 |
| SCH 180155 |                     | MS 130191  | SCH 120512 | 76               | 122        | 118        | 97           | 100             | 113       | 120          | 112        | 54        | 122      | 111        | 118       | 124        | 100           | 127 | 128       | 131     | 102              | 98            | 100         | 91     | 101     | 111   | 103   | 102              | 153              | 143             |
| SCH180155  |                     |            |            | 96               | 97         | 94         | 93           | 93              | 87        | 92           | 88         | 4.13      | 24.6     | -0.48      | 3.5       | 37.2       | 7             | 169 | -70       | 28.6    | -8.9             | -3.8          | 15.0        | -4     | 14      | 1.94  | 0.28  | 0.42             | 24               | 26 38           |
|            |                     |            |            |                  |            |            |              |                 |           |              |            | 97        | 97       | 94         | 94        | 94         | 93            | 94  | 90        | 95      | 93               | 91            | 94          | 95     | 95      | 90    | 90    | 90               |                  |                 |

Sires

| Bull              |                                                                                     |                          |                        | Selection Values       |               |                 |                    |              |                 |               | Calf         |             | Dam           |              | Growth        |                  |     |     | Fertility |                     |                  |                | Frame  |        | Carcass |       |          | Measured Progeny       |                    |
|-------------------|-------------------------------------------------------------------------------------|--------------------------|------------------------|------------------------|---------------|-----------------|--------------------|--------------|-----------------|---------------|--------------|-------------|---------------|--------------|---------------|------------------|-----|-----|-----------|---------------------|------------------|----------------|--------|--------|---------|-------|----------|------------------------|--------------------|
| ID                | Index<br>EBV<br>Acc                                                                 | Sire ID<br>Dam ID        | Calv.<br>Ease<br>Value | Calf<br>Grwth<br>Value | Milk<br>Value | Maint.<br>Value | Fertility<br>Value | Cow<br>Value | Growth<br>Value | Prod<br>Value | Birth<br>Dir | Wean<br>Dir | Birth<br>Mat. | Wean<br>Mat. | Post wn<br>wt | Mature<br>weight | ADG | FCR | Scrotal   | Heifer<br>Fertility | Cow<br>Fertility | Long-evi<br>ty | Height | Length | EMA     | Fat   | Marbling | Birth<br>Grwth<br>Test | Wean<br>Dgt/Calvs. |
|                   |                                                                                     |                          |                        |                        |               |                 |                    |              |                 |               |              |             |               |              |               |                  |     |     |           |                     |                  |                |        |        |         |       |          |                        |                    |
| V8 190337         |    | BOS 144259<br>BOS 133850 | 92                     | 121                    | 74            | 94              | 104                | 97           | 106             | 94            | 87           | 121         | 116           | 74           | 125           | 105              | 113 | 98  | 104       | 119                 | 85               | 109            | 94     | 118    | 117     | 113   | 113      | 15                     | 12                 |
| BAKKIE V8 19 0337 |                                                                                     |                          | 89                     | 90                     | 87            | 85              | 85                 | 80           | 84              | 81            | 90           | 90          | 87            | 87           | 86            | 85               | 85  | 83  | 86        | 85                  | 83               | 87             | 86     | 86     | 83      | 83    | 83       | 2                      | 1                  |
| VYF 150036        | FXF 110520<br>VYF 120123                                                            |                          | 105                    | 109                    | 108           | 97              | 103                | 114          | 119             | 112           | 106          | 109         | 94            | 108          | 107           | 101              | 116 | 96  | 118       | 100                 | 107              | 102            | 104    | 108    | 131     | 108   | 127      | 145                    | 110                |
| VYF150036         |                                                                                     |                          | 95                     | 95                     | 90            | 64              | 75                 | 78           | 47              | 72            | 96           | 95          | 90            | 90           | 85            | 64               | 52  | 38  | 59        | 88                  | 47               | 91             | 59     | 58     | 42      | 39    | 38       | 36                     | 89                 |
| WO 120465         | WO 100005<br>WO 100089                                                              |                          | 98                     | 100                    | 111           | 100             | 120                | 119          | 93              | 112           | 96           | 100         | 132           | 111          | 100           | 98               | 90  | 61  | 113       | 117                 | 120              | 112            | 101    | 102    | 100     | 129   | 114      | 190                    | 163                |
| WO120465          |                                                                                     |                          | 96                     | 97                     | 94            | 76              | 82                 | 82           | 44              | 74            | 97           | 97          | 93            | 94           | 88            | 76               | 70  | 13  | 76        | 91                  | 64               | 92             | 77     | 75     | 17      | 15    | 15       | 7                      | 70                 |
| WO 140165         | WO 120032<br>WO 090293                                                              |                          | 81                     | 114                    | 105           | 73              | 114                | 99           | 122             | 99            | 79           | 114         | 110           | 105          | 111           | 133              | 124 | 113 | 115       | 133                 | 89               | 115            | 113    | 118    | 122     | 89    | 99       | 66                     | 50                 |
| WO140165          |                                                                                     |                          | 91                     | 91                     | 83            | 60              | 73                 | 74           | 29              | 65            | 93           | 91          | 83            | 83           | 27.6          | 44               | 159 | -53 | 19.9      | -32.9               | -1.8             | 24.3           | 9      | 31     | 2.99    | -0.54 | 0.25     | 17                     | 43                 |
| WO 170908         |    | WO 120032<br>WO 070255   | 94                     | 93                     | 105           | 94              | 108                | 95           | 117             | 95            | 91           | 93          | 108           | 105          | 99            | 104              | 115 | 108 | 110       | 119                 | 88               | 115            | 92     | 97     | 106     | 85    | 80       | 143                    | 114                |
| WO170908          |                                                                                     |                          | 96                     | 96                     | 93            | 91              | 93                 | 86           | 90              | 87            | 97           | 96          | 93            | 93           | 18.2          | 12               | 128 | -48 | 17.0      | -22.0               | -1.7             | 24.3           | -3     | 11     | 1.40    | -0.78 | -0.82    | 1                      | 13                 |
| WO 181048         |    | WO 140184<br>WO 150871   | 73                     | 100                    | 136           | 106             | 103                | 111          | 95              | 105           | 77           | 100         | 95            | 136          | 96            | 93               | 95  | 89  | 100       | 118                 | 90               | 102            | 75     | 87     | 103     | 104   | 93       | 140                    | 114                |
| 181048            |                                                                                     |                          | 96                     | 96                     | 91            | 90              | 91                 | 85           | 90              | 86            | 97           | 96          | 93            | 91           | 16.0          | -1               | 54  | -27 | 10.8      | -21.9               | -2.1             | 16.1           | -13    | 1      | 1.14    | 0.33  | -0.11    | 5                      | 7                  |
| WO 190347         |   | WO 160897<br>WO 130161   | 108                    | 110                    | 85            | 91              | 99                 | 96           | 90              | 90            | 103          | 110         | 113           | 85           | 115           | 108              | 104 | 98  | 127       | 100                 | 89               | 110            | 115    | 116    | 110     | 107   | 99       | 85                     | 75                 |
| WO190347          |                                                                                     |                          | 94                     | 95                     | 87            | 85              | 87                 | 82           | 86              | 83            | 95           | 95          | 89            | 87           | 89            | 85               | 88  | 84  | 89        | 89                  | 84               | 89             | 89     | 89     | 84      | 84    | 84       | 9                      |                    |
| WO 190605         | WO 140755<br>WO 140918                                                              |                          | 76                     | 109                    | 117           | 107             | 94                 | 104          |                 |               | 81           | 109         | 92            | 117          | 107           | 93               | 101 |     | 107       | 83                  | 86               | 117            | 116    | 107    | 98      | 101   | 85       | 2                      | 2                  |
| WO190605          |                                                                                     |                          | 64                     | 66                     | 52            | 30              | 30                 | 46           |                 |               | 68           | 66          | 48            | 52           | 24.3          | -1               | 76  |     | 15.0      | 6.2                 | -1.3             | 25.3           | 11     | 20     | 0.62    | 0.15  | -0.54    | 1                      | 1                  |
| WO 200145         |  | BOS 100432<br>WO 160194  | 97                     | 117                    | 119           | 85              | 110                | 120          | 125             | 120           | 102          | 117         | 84            | 119          | 121           | 115              | 129 | 123 | 116       | 122                 | 99               | 106            | 112    | 115    | 120     | 136   | 103      | 214                    | 130                |
| WO200145          |                                                                                     |                          | 95                     | 96                     | 88            | 87              | 87                 | 83           | 86              | 84            | 97           | 96          | 88            | 88           | 35.4          | 24               | 179 | -64 | 20.3      | -25.0               | -3.8             | 18.5           | 9      | 28     | 2.80    | 2.22  | 0.49     |                        |                    |
| WO 200195         |  | WO 170106<br>WO 110584   | 89                     | 115                    | 84            | 80              | 96                 | 82           | 105             | 80            | 97           | 115         | 78            | 84           | 113           | 123              | 106 | 98  | 121       | 96                  | 93               | 104            | 107    | 109    | 106     | 107   | 103      | 4                      | 4                  |
| WO200195          |                                                                                     |                          | 85                     | 86                     | 83            | 81              | 82                 | 76           | 80              | 77            | 86           | 86          | 83            | 83           | 28.8          | 34               | 94  | -37 | 23.0      | -4.0                | -2.6             | 17.6           | 6      | 22     | 1.43    | 0.53  | 0.46     |                        |                    |
| WO 220493         | WO 190605<br>WO 120891                                                              |                          | 101                    | 107                    | 114           | 101             | 92                 | 107          |                 |               | 102          | 107         | 94            | 114          | 105           | 97               | 105 | 110 | 112       | 83                  | 91               | 106            | 114    | 110    | 97      | 104   | 93       | 6                      |                    |
| WO220493          |                                                                                     |                          | 66                     | 62                     | 50            | 27              | 30                 | 44           |                 |               | 71           | 62          | 49            | 50           | 22.6          | 3                | 89  | -50 | 17.7      | 5.6                 | -2.3             | 18.5           | 9      | 22     | 0.60    | 0.35  | -0.12    |                        |                    |

Sires

| Bull      |                     |                                                                                                                | Selection Values       |                        |               |                 |                    |              |                 |               | Calf         |             | Dam           |              | Growth        |                  |     |     | Fertility |                     |                  |                | Frame  |        | Carcass |     |          | Measured Progeny       |                    |    |         |
|-----------|---------------------|----------------------------------------------------------------------------------------------------------------|------------------------|------------------------|---------------|-----------------|--------------------|--------------|-----------------|---------------|--------------|-------------|---------------|--------------|---------------|------------------|-----|-----|-----------|---------------------|------------------|----------------|--------|--------|---------|-----|----------|------------------------|--------------------|----|---------|
| ID        | Index<br>EBV<br>Acc | Sire ID<br> Sire ID<br>Dam ID | Calv.<br>Ease<br>Value | Calf<br>Grwth<br>Value | Milk<br>Value | Maint.<br>Value | Fertility<br>Value | Cow<br>Value | Growth<br>Value | Prod<br>Value | Birth<br>Dir | Wean<br>Dir | Birth<br>Mat. | Wean<br>Mat. | Post wn<br>wt | Mature<br>weight | ADG | FCR | Scrotal   | Heifer<br>Fertility | Cow<br>Fertility | Long-evi<br>ty | Height | Length | EMA     | Fat | Marbling | Birth<br>Grwth<br>Test | Wean<br>Dgt/Calvs. |    |         |
|           |                     |                                                                                                                |                        |                        |               |                 |                    |              |                 |               |              |             |               |              |               |                  |     |     |           |                     |                  |                |        |        |         |     |          |                        |                    |    |         |
|           |                     |                                                                                                                |                        |                        |               |                 |                    |              |                 |               |              |             |               |              |               |                  |     |     |           |                     |                  |                |        |        |         |     |          |                        |                    |    |         |
| WO 980062 |                     |                                                                                                                | WO 950088              |                        | 91            | 114             | 92                 | 99           | 96              | 97            | 96           | 92          | 92            | 114          | 98            | 92               | 117 | 100 | 100       | 112                 | 93               | 104            | 97     | 93     | 89      | 100 | 106      | 121                    | 104                | 60 | 143     |
| WO 960127 |                     |                                                                                                                | WO 960127              |                        |               |                 |                    |              |                 |               |              |             |               |              |               |                  |     |     |           |                     |                  |                |        |        |         |     |          |                        |                    |    |         |
| WO 98 62  |                     |                                                                                                                |                        |                        | 98            | 98              | 98                 | 95           | 95              | 89            | 73           | 86          | 98            | 98           | 97            | 98               | 96  | 95  | 95        | 50                  | 96               | 97             | 91     | 98     | 95      | 95  | 70       | 66                     | 64                 | 33 | 143 768 |

# Breeding Values and Accuracies: Bulls

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal                               |                                                                                     |                         | Selection Values |               |           |           |           |             |           |              | Birth       |               | Wean               |                    |                |                   | Growth            |                       |                   | Fertility        |                  |                   |                    | Frame             |                   | Carcass         |                 |                   |                   |                   |
|--------------------------------------|-------------------------------------------------------------------------------------|-------------------------|------------------|---------------|-----------|-----------|-----------|-------------|-----------|--------------|-------------|---------------|--------------------|--------------------|----------------|-------------------|-------------------|-----------------------|-------------------|------------------|------------------|-------------------|--------------------|-------------------|-------------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Index<br>EBV<br>Acc                  | % Inbreeding                                                                        | Sire ID<br>Dam ID       | Calv. Ease V     | Calf Growth V |           | Milk V    | Maint. V  | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir       | Birth mat          | Mature wt      | Wean wt           | Wean mat          | Cow-Calf Ratio (Wean) | Postwean wt       | ADG              | FCR              | Scrotal Circ.     | Heifer Fertility   | Cow Fertility     | Longevity         | Height          | Length          | EMA               | Fat               | Marbling          |
| ID<br>Number<br>Name                 |                                                                                     |                         |                  |               |           |           |           |             |           |              |             |               |                    |                    |                |                   |                   |                       |                   |                  |                  |                   |                    |                   |                   |                 |                 |                   |                   |                   |
| MS 200305<br>91569806<br>MS200305    |                                                                                     | MS 170370<br>MS 150018  | 112<br>63        | 83<br>63      | 122<br>50 | 108<br>21 | 90<br>41  |             | 100<br>45 |              |             | 85<br>12      | 111<br>-0.60<br>67 | 99<br>-0.01<br>49  | 92<br>21       | 83<br>63          | 122<br>4.8<br>50  | 102<br>47<br>45       | 84<br>6.8<br>41   | 84<br>13<br>19   | 81<br>-18<br>11  | 93<br>6.9<br>20   | 89<br>1.1<br>45    | 91<br>-2.4<br>25  | 98<br>13.3<br>52  | 94<br>-2<br>20  | 94<br>8<br>19   | 87<br>-0.42<br>13 | 95<br>-0.21<br>12 | 86<br>-0.51<br>12 |
| TG 200093<br>92568070<br>TG200093    |                                                                                     | MAJ 070622<br>TG 170006 | 93<br>65         | 109<br>63     | 109<br>57 | 90<br>47  | 93<br>48  |             | 96<br>52  | 101<br>32    | 92<br>48    | 108<br>20     | 97<br>0.57<br>67   | 88<br>0.43<br>58   | 109<br>47      | 109<br>17.1<br>63 | 109<br>1.0<br>57  | 110<br>67<br>56       | 104<br>22.4<br>54 | 109<br>106<br>46 | 109<br>-49<br>17 | 100<br>11.0<br>47 | 102<br>-8.8<br>47  | 81<br>-0.2<br>41  | 104<br>17.3<br>57 | 121<br>13<br>47 | 119<br>32<br>47 | 108<br>1.64<br>21 | 96<br>-0.10<br>18 | 89<br>-0.32<br>18 |
| MS 210012<br>93251130<br>MS210012    |                                                                                     | MS 150092<br>MS 110032  | 116<br>68        | 90<br>68      | 92<br>61  | 103<br>35 | 111<br>47 |             | 104<br>52 | 82<br>23     | 95<br>46    |               | 109<br>-0.40<br>71 | 121<br>-0.88<br>59 | 96<br>2<br>35  | 90<br>6.5<br>68   | 92<br>-3.6<br>61  | 83<br>2<br>55         | 88<br>9.6<br>54   | 87<br>24<br>40   |                  | 102<br>12.2<br>43 | 112<br>-16.8<br>50 | 114<br>-6.9<br>32 | 101<br>15.7<br>58 | 108<br>6<br>43  | 94<br>8<br>42   |                   |                   |                   |
| MS 210168<br>93249738<br>MS210168    |                                                                                     | WO 170908<br>MS 140160  | 97<br>64         | 89<br>66      | 108<br>53 | 100<br>30 | 96<br>41  |             | 89<br>48  |              |             | 89<br>18      | 97<br>0.57<br>67   | 100<br>-0.05<br>53 | 98<br>30       | 89<br>5.9<br>66   | 108<br>0.7<br>53  | 94<br>28<br>50        | 92<br>12.6<br>50  | 99<br>67<br>23   | 99<br>-38<br>10  | 98<br>10.2<br>27  | 89<br>1.5<br>46    | 89<br>-1.8<br>28  | 113<br>22.6<br>50 | 93<br>-2<br>26  | 92<br>6<br>25   | 90<br>-0.17<br>19 | 86<br>-0.74<br>17 | 79<br>-0.89<br>17 |
| WO 220493<br>94170677<br>WO220493    |                                                                                     | WO 190605<br>WO 120891  | 101<br>66        | 107<br>62     | 114<br>50 | 101<br>27 | 92<br>30  |             | 107<br>44 |              |             | 104<br>13     | 102<br>0.14<br>71  | 94<br>0.19<br>49   | 97<br>3<br>27  | 107<br>16.2<br>62 | 114<br>2.5<br>50  | 119<br>87<br>46       | 105<br>22.6<br>46 | 105<br>89<br>16  | 110<br>-50<br>11 | 112<br>17.7<br>19 | 83<br>5.6<br>29    | 91<br>-2.3<br>17  | 106<br>18.5<br>45 | 114<br>9<br>19  | 110<br>22<br>18 | 97<br>0.60<br>14  | 104<br>0.35<br>12 | 93<br>-0.12<br>12 |
| ISHA230012<br>96824594<br>ISHA230012 |                                                                                     | TG 200261               | 112<br>48        | 83<br>24      | 105<br>17 |           | 75<br>12  |             |           |              |             |               | 112<br>-0.62<br>54 | 97<br>0.07<br>27   |                | 83<br>2.1<br>24   | 105<br>0.0<br>17  |                       | 81<br>4.2<br>5    |                  |                  |                   | 85<br>4.2<br>8     | 89<br>-1.8<br>8   | 72<br>-2.4<br>19  |                 |                 |                   |                   |                   |
| ISHA230013<br>96781745<br>ISHA230013 |                                                                                     | TG 200079               | 129<br>50        | 81<br>30      | 102<br>25 | 106<br>20 | 81<br>25  |             | 87<br>28  |              |             | 85<br>14      | 130<br>-2.17<br>55 | 87<br>0.46<br>32   | 94<br>20       | 81<br>1.3<br>30   | 102<br>-0.9<br>25 | 82<br>0<br>25         | 80<br>3.3<br>26   | 86<br>23<br>17   | 93<br>-32<br>13  | 86<br>2.9<br>22   | 98<br>-6.0<br>29   | 88<br>-1.6<br>17  | 74<br>-1.2<br>29  | 110<br>7<br>19  | 96<br>10<br>18  | 82<br>-0.93<br>15 | 103<br>0.30<br>14 | 97<br>0.11<br>13  |
| ISHA230014<br>96824602<br>ISHA230014 |                                                                                     | TG 210002               | 117<br>48        | 84<br>17      | 98<br>18  | 115<br>12 | 75<br>14  |             | 82<br>20  |              |             |               | 116<br>-1.01<br>54 | 97<br>0.08<br>27   | 87<br>12       | 84<br>2.6<br>17   | 98<br>-1.9<br>18  | 84<br>4<br>16         | 82<br>4.8<br>12   | 81<br>4<br>6     |                  | 85<br>2.4<br>6    | 84<br>5.3<br>14    | 91<br>-2.3<br>7   | 69<br>-4.4<br>20  | 93<br>-3<br>6   | 87<br>1<br>6    |                   |                   |                   |
| ISHA230019<br>96781851<br>ISHA230019 |                                                                                     | TG 200168               | 115<br>48        | 85<br>28      | 100<br>19 | 117<br>8  | 78<br>18  |             | 87<br>23  |              |             |               | 114<br>-0.84<br>54 | 98<br>0.04<br>27   | 85<br>-10<br>8 | 85<br>3.7<br>28   | 100<br>-1.5<br>19 | 88<br>14<br>18        | 83<br>6.0<br>16   |                  |                  |                   | 88<br>1.8<br>24    | 91<br>-2.3<br>9   | 73<br>-1.8<br>20  |                 |                 |                   |                   |                   |
| ISHA230020<br>96781869<br>ISHA230020 |                                                                                     | TG 200101               | 110<br>50        | 87<br>31      | 99<br>23  | 109<br>13 | 85<br>22  |             | 85<br>26  |              |             | 79<br>6       | 111<br>-0.55<br>55 | 94<br>0.19<br>31   | 93<br>13       | 87<br>4.5<br>31   | 99<br>-1.8<br>23  | 86<br>9<br>22         | 85<br>7.1<br>24   | 83<br>11<br>9    |                  | 90<br>5.4<br>10   | 95<br>-3.7<br>26   | 90<br>-2.1<br>13  | 83<br>4.2<br>26   | 91<br>-4<br>10  | 86<br>0<br>9    | 77<br>-1.42<br>6  | 90<br>-0.50<br>5  | 86<br>-0.51<br>5  |
| ISHA230021<br>98261753<br>ISHA230021 |  | MS 190138               | 87<br>80         | 118<br>78     | 111<br>77 | 96<br>76  | 95<br>77  |             | 107<br>71 | 112<br>76    | 105<br>72   | 112<br>76     | 88<br>1.33<br>81   | 101<br>-0.11<br>77 | 102<br>9<br>76 | 118<br>22.4<br>78 | 111<br>1.7<br>77  | 126<br>102<br>77      | 118<br>33.2<br>77 | 116<br>129<br>76 | 108<br>-48<br>76 | 115<br>19.6<br>76 | 108<br>-13.6<br>77 | 93<br>-2.7<br>76  | 92<br>9.7<br>77   | 109<br>6<br>76  | 109<br>22<br>76 | 120<br>2.81<br>76 | 103<br>0.29<br>76 | 115<br>1.13<br>76 |
| ISHA230023<br>96781877<br>ISHA230023 |                                                                                     | TG 200126               | 115<br>49        | 86<br>30      | 114<br>22 | 105<br>9  | 77<br>21  |             | 87<br>25  |              |             |               | 116<br>-0.97<br>55 | 92<br>0.25<br>30   | 94<br>9        | 86<br>4.2<br>30   | 114<br>2.5<br>22  | 98<br>37<br>20        | 85<br>7.6<br>22   | 88<br>28<br>9    |                  | 97<br>9.3<br>10   | 84<br>4.8<br>27    | 85<br>-1.1<br>11  | 79<br>1.5<br>26   | 99<br>1<br>10   | 91<br>5<br>10   |                   |                   |                   |

# Breeding Values and Accuracies: Bulls

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal                               |                                                                                   |         |        | Selection Values |               |        |          |             |           |              |             | Birth         |              | Wean      |           |         |          | Growth                   |             |       | Fertility |               |                  |               | Frame     |        | Carcass |      |        |          |      |    |      |     |          |       |        |          |    |     |     |         |       |        |           |     |           |           |        |        |     |     |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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| Index<br>EBV<br>Acc                  | Inbreeding                                                                        | Sire ID | Dam ID | Calv. Ease V     | Calv Growth V | Milk V | Maint. V | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt | Wean wt | Wean mat | Cow-Calf<br>Ratio (Wean) | Postwean wt | ADG   | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA  | Fat    | Marbling |      |    |      |     |          |       |        |          |    |     |     |         |       |        |           |     |           |           |        |        |     |     |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ID<br>Number<br>Name                 |                                                                                   |         |        | Calv.            | Ease          | V      | Calv     | Growth      | V         | Milk         | V           | Maint.        | V            | Fertili   | V         | Cow     | Value    | Growth                   | Value       | Prod. | Value     | Carcass       | Value            | Birth         | wt        | dir    | Birth   | mat  | Mature | wt       | Wean | wt | Wean | mat | Cow-Calf | Ratio | (Wean) | Postwean | wt | ADG | FCR | Scrotal | Circ. | Heifer | Fertility | Cow | Fertility | Longevity | Height | Length | EMA | Fat | Marbling |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| ISHA230026<br>98261761<br>ISHA230026 |  | MS      | 190055 | 74               | 121           | 119    | 89       | 97          | 106       | 109          | 103         | 113           | 63           | 103       | 108       | 121     | 119      | 132                      | 118         | 115   | 112       | 118           | 101              | 102           | 92        | 125    | 119     | 115  | 108    | 106      |      |    |      |     |          |       |        |          |    |     |     |         |       |        |           |     |           |           |        |        |     |     |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 80                                   |                                                                                   |         |        | 78               | 77            | 76     | 77       | 71          | 76        | 72           | 76          | 81            | 78           | 76        | 77        | 77      | 76       | 76                       | 76          | 21.4  | -8.5      | -4.5          | 9.8              | 16            | 31        | 2.36   | 0.57    | 0.61 |        |          |      |    |      |     |          |       |        |          |    |     |     |         |       |        |           |     |           |           |        |        |     |     |          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|                                      |                                                                                   |         |        |                  |               |        |          |             |           |              |             |               |              |           |           |         |          |                          |             |       | 76        | 76            | 76               | 76            | 76        | 76     | 76      | 76   | 76     | 76       | 76   | 76 | 76   | 76  | 76       | 76    | 76     | 76       | 76 | 76  | 76  | 76      | 76    | 76     | 76        | 76  | 76        | 76        | 76     | 76     | 76  | 76  | 76       | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 |

# Breeding Values and Accuracies: Bulls

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal                               |              |                          | Selection Values |               |           |           |             |           |              |             | Birth         |                    | Wean               |                 |                   |                   | Growth                |                   |                  | Fertility        |                   |                    |                    | Frame             |                   | Carcass         |                   |                   |                   |                   |
|--------------------------------------|--------------|--------------------------|------------------|---------------|-----------|-----------|-------------|-----------|--------------|-------------|---------------|--------------------|--------------------|-----------------|-------------------|-------------------|-----------------------|-------------------|------------------|------------------|-------------------|--------------------|--------------------|-------------------|-------------------|-----------------|-------------------|-------------------|-------------------|-------------------|
| Index<br>EBV<br>Acc                  | % Inbreeding | Sire ID<br>Dam ID        | Calv. Ease V     | Calf Growth V | Milk V    | Maint. V  | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir       | Birth mat          | Mature wt       | Wean wt           | Wean mat          | Cow-Calf Ratio (Wean) | Postwean wt       | ADG              | FCR              | Scrotal Circ.     | Heifer Fertility   | Cow Fertility      | Longevity         | Height            | Length          | EMA               | Fat               | Marbling          |                   |
| ID Number<br>Name                    |              |                          |                  |               |           |           |             |           |              |             |               |                    |                    |                 |                   |                   |                       |                   |                  |                  |                   |                    |                    |                   |                   |                 |                   |                   |                   |                   |
| ISHA240002<br>96823836<br>ISHA240002 |              | CR 200006<br>CR 210132   | 120<br>45        | 114<br>46     | 94<br>40  | 89<br>29  | 114<br>31   | 120<br>36 | 117<br>24    | 118<br>34   | 111<br>6      | 118<br>-1.19<br>47 | 98<br>0.03<br>40   | 111<br>19<br>29 | 114<br>20.1<br>46 | 94<br>-3.1<br>40  | 103<br>49<br>38       | 119<br>33.7<br>40 | 107<br>99<br>41  |                  | 107<br>14.9<br>45 | 115<br>-19.0<br>33 | 117<br>-7.5<br>20  | 102<br>16.1<br>39 | 103<br>3<br>46    | 117<br>30<br>44 | 110<br>1.86<br>6  | 104<br>0.35<br>5  |                   |                   |
| ISHA240003<br>96823828<br>ISHA240003 |              | CR 200006<br>CR 210124   | 119<br>45        | 114<br>46     | 88<br>40  | 90<br>29  | 119<br>31   | 122<br>36 | 117<br>24    | 119<br>34   | 110<br>6      | 117<br>-1.09<br>47 | 99<br>-0.03<br>40  | 109<br>18<br>29 | 114<br>20.4<br>46 | 88<br>-4.7<br>40  | 100<br>42<br>38       | 120<br>34.4<br>41 | 109<br>104<br>40 |                  | 106<br>14.5<br>44 | 111<br>-15.8<br>33 | 133<br>-10.8<br>21 | 102<br>16.1<br>40 | 104<br>4<br>45    | 116<br>29<br>43 | 110<br>1.82<br>6  | 103<br>0.28<br>5  |                   |                   |
| ISHA240014<br>98027048<br>ISHA240014 |              | BOS 177663<br>MS 190205  | 89<br>63         | 112<br>58     | 97<br>51  | 94<br>37  | 98<br>40    | 96<br>46  | 97<br>26     | 92<br>42    | 95<br>31      | 87<br>1.43<br>66   | 110<br>-0.47<br>53 | 104<br>12<br>37 | 112<br>19.0<br>58 | 97<br>-2.2<br>51  | 107<br>58<br>49       | 112<br>28.4<br>49 | 100<br>72<br>46  |                  | 99<br>10.6<br>49  | 86<br>3.2<br>48    | 97<br>-3.4<br>23   | 111<br>21.6<br>50 | 83<br>-9<br>49    | 96<br>9<br>48   | 114<br>2.23<br>32 | 53<br>-2.63<br>30 | 74<br>-1.17<br>29 |                   |
| ISHA240022<br>98027030<br>ISHA240022 | 2            | MS 200305<br>MS 190399   | 112<br>55        | 90<br>46      | 115<br>41 | 103<br>22 | 98<br>33    | 105<br>37 |              |             | 87<br>8       | 108<br>-0.29<br>59 | 110<br>-0.45<br>43 | 95<br>1<br>22   | 90<br>6.3<br>46   | 115<br>2.7<br>41  | 102<br>47<br>36       | 90<br>11.3<br>34  | 86<br>22<br>20   | 80<br>-18<br>6   |                   | 98<br>9.9<br>21    | 96<br>-4.7<br>48   | 100<br>-4.0<br>21 | 101<br>15.7<br>39 | 98<br>0<br>22   | 96<br>10<br>21    | 88<br>-0.32<br>8  | 101<br>0.16<br>7  | 91<br>-0.23<br>7  |
| ISHA240031<br>6020884356<br>240031   |              | RLR 210037               | 115<br>48        | 98<br>34      | 97<br>28  | 117<br>22 | 82<br>22    | 99<br>29  | 75<br>20     | 89<br>27    | 82<br>22      | 115<br>-0.88<br>52 | 97<br>0.08<br>33   | 85<br>-10<br>22 | 98<br>10.9<br>34  | 97<br>-2.2<br>28  | 100<br>43<br>28       | 94<br>14.3<br>32  | 84<br>15<br>24   | 92<br>-30<br>15  |                   | 100<br>11.1<br>26  | 96<br>-4.0<br>23   | 77<br>0.5<br>15   | 88<br>7.4<br>27   | 86<br>-7<br>26  | 90<br>3<br>25     | 79<br>-1.22<br>22 | 83<br>-0.90<br>21 | 96<br>0.04<br>20  |
| ISHA240037<br>6020304728<br>240037   |              | WO 200145<br>OKT 160008  | 102<br>61        | 111<br>60     | 105<br>56 | 94<br>38  | 105<br>40   | 111<br>47 | 107<br>21    | 107<br>42   | 107<br>18     | 103<br>0.08<br>62  | 94<br>0.17<br>56   | 104<br>12<br>38 | 111<br>18.4<br>60 | 105<br>-0.1<br>56 | 112<br>70<br>51       | 113<br>28.9<br>49 | 112<br>115<br>32 | 104<br>-44<br>9  |                   | 108<br>15.9<br>33  | 99<br>-6.9<br>42   | 104<br>-4.9<br>30 | 109<br>20.3<br>47 | 107<br>5<br>33  | 106<br>19<br>33   | 107<br>1.55<br>19 | 117<br>1.10<br>17 | 103<br>0.50<br>17 |
| MS 240027<br>97084511<br>MS240027    |              | MS 210032                | 103<br>52        | 93<br>33      | 100<br>28 | 103<br>18 | 83<br>25    | 82<br>29  |              |             |               | 98<br>0.47<br>57   | 111<br>-0.51<br>35 | 96<br>2<br>18   | 93<br>8.0<br>33   | 100<br>-1.5<br>28 | 92<br>23<br>26        | 89<br>10.7<br>27  | 88<br>28<br>20   |                  | 97<br>9.6<br>22   | 83<br>5.6<br>30    | 100<br>-4.1<br>17  | 79<br>2.0<br>28   | 105<br>4<br>22    | 96<br>10<br>21  |                   |                   |                   |                   |
| MS 240028<br>97084529<br>MS240028    |              | MS 210096                | 98<br>52         | 91<br>33      | 104<br>28 | 106<br>17 | 91<br>24    | 89<br>29  |              |             | 85<br>10      | 96<br>0.68<br>57   | 105<br>-0.27<br>35 | 94<br>0<br>17   | 91<br>6.7<br>33   | 104<br>-0.1<br>28 | 95<br>29<br>26        | 91<br>11.8<br>24  | 91<br>41<br>14   | 93<br>-32<br>5   |                   | 92<br>6.4<br>16    | 104<br>-10.7<br>28 | 90<br>-2.0<br>17  | 89<br>8.1<br>28   | 92<br>-3<br>15  | 90<br>4<br>15     | 82<br>-0.89<br>10 | 91<br>-0.41<br>9  | 91<br>-0.23<br>9  |
| SCH 241006<br>97086284<br>SCH241006  |              | SCH 170105<br>SCH 160163 | 104<br>60        | 117<br>67     | 96<br>59  | 82<br>56  | 120<br>46   | 117<br>53 | 103<br>33    | 112<br>49   | 112<br>8      | 103<br>0.11<br>61  | 102<br>-0.14<br>56 | 120<br>30<br>56 | 117<br>22.1<br>67 | 96<br>-2.6<br>59  | 104<br>52<br>61       | 117<br>31.9<br>43 | 111<br>114<br>56 | 103<br>-43<br>8  |                   | 108<br>15.6<br>59  | 117<br>-20.7<br>53 | 120<br>-8.1<br>32 | 111<br>21.4<br>54 | 114<br>9<br>59  | 120<br>32<br>58   | 115<br>2.30<br>8  | 102<br>0.22<br>7  | 97<br>0.13<br>7   |
| SCH 241009<br>97086318<br>SCH241009  |              | SCH 170105<br>SCH 150037 | 101<br>60        | 119<br>67     | 103<br>59 | 74<br>56  | 112<br>45   | 111<br>53 | 102<br>30    | 106<br>48   | 114<br>5      | 105<br>-0.05<br>61 | 88<br>0.44<br>56   | 130<br>42<br>56 | 119<br>23.3<br>67 | 103<br>-0.4<br>59 | 108<br>60<br>61       | 122<br>35.8<br>41 | 113<br>118<br>53 |                  | 94<br>7.5<br>56   | 108<br>-13.4<br>53 | 116<br>-7.4<br>30  | 104<br>17.5<br>53 | 110<br>7<br>57    | 123<br>35<br>56 | 116<br>2.40<br>5  | 102<br>0.20<br>5  | 102<br>0.44<br>5  |                   |
| SCH 241010<br>97086326<br>SCH241010  |              | SCH 180155<br>SCH 150035 | 84<br>60         | 115<br>67     | 112<br>59 | 104<br>53 | 108<br>44   | 118<br>52 | 105<br>32    | 114<br>48   | 104<br>11     | 80<br>1.97<br>61   | 116<br>-0.68<br>55 | 94<br>1<br>53   | 115<br>20.8<br>67 | 112<br>2.1<br>59  | 128<br>108<br>60      | 114<br>29.6<br>42 | 110<br>109<br>52 | 112<br>-52<br>10 |                   | 113<br>18.6<br>55  | 114<br>-18.2<br>51 | 103<br>-4.7<br>31 | 104<br>17.3<br>51 | 95<br>-2<br>56  | 95<br>9<br>55     | 104<br>1.20<br>11 | 101<br>0.18<br>11 | 103<br>0.44<br>10 |
| ISHA250004<br>6020481294<br>250004   | 4            | MS 190080<br>MS 190029   | 84<br>58         | 115<br>58     | 91<br>50  | 90<br>28  | 99<br>39    | 91<br>44  | 101<br>20    | 87<br>39    | 108<br>14     | 86<br>1.50<br>60   | 97<br>0.05<br>51   | 109<br>18<br>28 | 115<br>20.5<br>58 | 91<br>-3.8<br>50  | 103<br>48<br>45       | 114<br>30.2<br>42 | 107<br>97<br>27  | 104<br>-44<br>13 |                   | 106<br>14.7<br>28  | 99<br>-7.0<br>43   | 100<br>-4.1<br>27 | 99<br>14.4<br>48  | 90<br>-4<br>28  | 104<br>18<br>28   | 110<br>1.85<br>15 | 104<br>0.36<br>14 | 101<br>0.37<br>14 |

# Breeding Values and Accuracies: Bulls

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal               |              |                   |  | Selection Values |               |        |          |             |           |              |             |               |              | Birth     |           | Wean    |          |                          |             | Growth |     |               | Fertility        |               |           |        | Frame  |       | Carcass |          |  |
|----------------------|--------------|-------------------|--|------------------|---------------|--------|----------|-------------|-----------|--------------|-------------|---------------|--------------|-----------|-----------|---------|----------|--------------------------|-------------|--------|-----|---------------|------------------|---------------|-----------|--------|--------|-------|---------|----------|--|
| Index<br>EBV<br>Acc  | % Inbreeding | Sire ID<br>Dam ID |  | Calv. Ease V     | Calv Growth V | Milk V | Maint. V | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt | Wean wt | Wean mat | Cow-Calf<br>Ratio (Wean) | Postwean wt | ADG    | FCR | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length | EMA   | Fat     | Marbling |  |
| ID<br>Number<br>Name |              |                   |  |                  |               |        |          |             |           |              |             |               |              |           |           |         |          |                          |             |        |     |               |                  |               |           |        |        |       |         |          |  |
| ISHA250005           | 2            | MS 190080         |  | 97               | 111           | 92     | 92       | 110         | 104       | 98           | 99          | 103           | 93           | 110       | 107       | 111     | 92       | 100                      | 110         | 102    | 97  | 109           | 107              | 115           | 102       | 91     | 102    | 104   | 109     | 102      |  |
| 6020480064           |              | MS 190399         |  | 58               | 58            | 50     | 30       | 39          | 44        | 21           | 39          | 12            | 0.88         | -0.44     | 16        | 18.3    | -3.6     | 42                       | 26.6        | 80     | -35 | 16.3          | -13.3            | -7.1          | 16.2      | -4     | 15     | 1.27  | 0.62    | 0.39     |  |
| 250005               |              |                   |  |                  |               |        |          |             |           |              |             |               | 60           | 52        | 30        | 58      | 50       | 46                       | 44          | 29     | 11  | 31            | 43               | 27            | 48        | 31     | 31     | 12    | 11      | 11       |  |
| ISHA250018           | 2            | MS 200305         |  | 111              | 89            | 111    | 108      | 100         | 106       |              |             | 82            | 109          | 100       | 93        | 89      | 111      | 99                       | 89          | 82     | 75  | 94            | 95               | 98            | 108       | 94     | 91     | 85    | 97      | 83       |  |
| 6020481476           |              | MS 190205         |  | 47               | 46            | 41     | 22       | 32          | 35        |              |             | 8             | -0.45        | -0.07     | -1        | 5.9     | 1.7      | 40                       | 10.8        | 6      | -12 | 7.9           | -3.6             | -3.7          | 19.8      | -2     | 5      | -0.63 | -0.04   | -0.66    |  |
| 250018               |              |                   |  |                  |               |        |          |             |           |              |             |               | 49           | 42        | 22        | 46      | 41       | 36                       | 34          | 20     | 6   | 21            | 38               | 20            | 39        | 22     | 21     | 8     | 7       | 7        |  |
| ISHA250019           |              | BOS 177663        |  | 88               | 115           | 100    | 90       | 84          | 88        | 106          | 86          | 106           | 89           | 101       | 109       | 115     | 100      | 110                      | 116         | 112    |     | 105           | 80               | 85            | 99        | 89     | 104    | 124   | 52      | 85       |  |
| 6020482334           |              | MS 190138         |  | 54               | 54            | 42     | 32       | 37          | 41        | 24           | 38          | 31            | 1.28         | -0.09     | 17        | 20.8    | -1.3     | 67                       | 31.1        | 117    |     | 13.9          | 8.2              | -1.0          | 14.3      | -5     | 17     | 3.22  | -2.67   | -0.54    |  |
| 250019               |              |                   |  |                  |               |        |          |             |           |              |             |               | 56           | 47        | 32        | 54      | 42       | 43                       | 46          | 43     |     | 45            | 46               | 18            | 46        | 46     | 45     | 32    | 30      | 29       |  |
| ISHA250020           | 4            | MS 190080         |  | 84               | 115           | 91     | 90       | 99          | 91        | 101          | 87          | 108           | 86           | 97        | 109       | 115     | 91       | 103                      | 114         | 107    | 104 | 106           | 99               | 100           | 99        | 90     | 104    | 110   | 104     | 101      |  |
| 6020481302           |              | MS 190029         |  | 58               | 58            | 50     | 28       | 39          | 44        | 20           | 39          | 14            | 1.50         | 0.05      | 18        | 20.5    | -3.8     | 48                       | 30.2        | 97     | -44 | 14.7          | -7.0             | -4.1          | 14.4      | -4     | 18     | 1.85  | 0.36    | 0.37     |  |
| 250020               |              |                   |  |                  |               |        |          |             |           |              |             |               | 60           | 51        | 28        | 58      | 50       | 45                       | 42          | 27     | 13  | 28            | 43               | 27            | 48        | 28     | 28     | 15    | 14      | 14       |  |
| ISHA250027           | 1            | WO 181048         |  | 84               | 102           | 115    | 97       | 100         | 100       | 93           | 94          | 96            | 82           | 112       | 100       | 102     | 115      | 113                      | 98          | 97     | 94  | 106           | 102              | 101           | 100       | 98     | 98     | 97    | 101     | 93       |  |
| 6020481500           |              | MS 210032         |  | 62               | 57            | 47     | 31       | 37          | 44        | 22           | 40          | 28            | 1.83         | -0.53     | 7         | 13.4    | 2.8      | 73                       | 17.3        | 60     | -33 | 14.3          | -8.8             | -4.4          | 14.6      | 0      | 11     | 0.60  | 0.16    | -0.13    |  |
| 250027               |              |                   |  |                  |               |        |          |             |           |              |             |               | 66           | 50        | 31        | 57      | 47       | 45                       | 49          | 36     | 5   | 40            | 44               | 23            | 45        | 40     | 39     | 29    | 26      | 25       |  |
| ISHA250030           | 1            | BOS 188650        |  | 108              | 107           | 79     | 105      | 101         | 99        | 112          | 98          | 107           | 103          | 125       | 95        | 107     | 79       | 90                       | 107         | 118    | 116 | 104           | 82               | 108           | 110       | 95     | 100    | 111   | 95      | 99       |  |
| 6020482359           |              | SCH 180388        |  | 52               | 61            | 52     | 42       | 43          | 46        | 27           | 42          | 10            | 0.09         | -1.03     | 1         | 15.9    | -7.2     | 19                       | 24.8        | 138    | -57 | 13.4          | 6.8              | -5.7          | 21.3      | -2     | 13     | 1.94  | -0.16   | 0.26     |  |
| 250030               |              |                   |  |                  |               |        |          |             |           |              |             |               | 54           | 45        | 42        | 61      | 52       | 52                       | 50          | 44     | 7   | 48            | 51               | 28            | 49        | 48     | 47     | 11    | 10      | 10       |  |
| ISHA250031           | 2            | MS 190080         |  | 102              | 121           | 87     | 80       | 120         | 112       | 112          | 110         | 116           | 103          | 95        | 124       | 121     | 87       | 99                       | 124         | 115    | 108 | 109           | 118              | 129           | 102       | 89     | 110    | 117   | 109     | 103      |  |
| 6020186869           |              | CR 210132         |  | 64               | 58            | 48     | 33       | 38          | 45        | 24           | 41          | 12            | 0.12         | 0.13      | 34        | 24.1    | -5.1     | 40                       | 37.3        | 128    | -48 | 16.1          | -21.5            | -10.0         | 16.1      | -5     | 23     | 2.50  | 0.63    | 0.45     |  |
| 250031               |              |                   |  |                  |               |        |          |             |           |              |             |               | 67           | 52        | 33        | 58      | 48       | 46                       | 47          | 35     | 11  | 37            | 40               | 27            | 47        | 37     | 36     | 13    | 12      | 11       |  |
| ISHA250035           |              | BOS 177663        |  | 95               | 124           | 95     | 90       | 101         | 108       | 108          | 105         | 111           | 90           | 118       | 109       | 124     | 95       | 115                      | 122         | 115    |     | 106           | 95               | 101           | 106       | 93     | 106    | 128   | 54      | 89       |  |
| 6020481534           |              | SCH 150035        |  | 59               | 61            | 56     | 48       | 42          | 49        | 29           | 45          | 30            | 1.20         | -0.76     | 18        | 25.9    | -2.7     | 78                       | 35.8        | 126    |     | 14.3          | -3.8             | -4.3          | 18.5      | -2     | 19     | 3.63  | -2.57   | -0.35    |  |
| 250035               |              |                   |  |                  |               |        |          |             |           |              |             |               | 60           | 54        | 48        | 61      | 56       | 55                       | 48          | 51     |     | 55            | 50               | 25            | 51        | 55     | 54     | 32    | 29      | 29       |  |
| ISHA250036           |              | WO 181048         |  | 90               | 102           | 113    | 106      | 102         | 108       | 92           | 101         | 94            | 91           | 100       | 93        | 102     | 113      | 115                      | 100         | 94     | 86  | 100           | 97               | 100           | 107       | 88     | 92     | 99    | 101     | 98       |  |
| 6020481401           |              | OKT 160008        |  | 59               | 60            | 55     | 36       | 38          | 46        | 22           | 41          | 30            | 1.10         | -0.04     | 0         | 13.5    | 2.3      | 78                       | 19.2        | 52     | -24 | 11.2          | -5.4             | -4.1          | 19.1      | -6     | 6      | 0.72  | 0.16    | 0.19     |  |
| 250036               |              |                   |  |                  |               |        |          |             |           |              |             |               | 61           | 52        | 36        | 60      | 55       | 50                       | 52          | 34     | 6   | 38            | 45               | 22            | 48        | 39     | 37     | 31    | 28      | 27       |  |
| ISHA250040           |              | WO 181048         |  | 89               | 113           | 118    | 99       | 110         | 121       | 98           | 115         | 104           | 87           | 109       | 98        | 113     | 118      | 129                      | 108         | 102    | 100 | 105           | 119              | 102           | 105       | 95     | 98     | 107   | 103     | 101      |  |
| 6020482391           |              | SCH 150035        |  | 59               | 60            | 55     | 44       | 39          | 48        | 26           | 44          | 28            | 1.45         | -0.42     | 5         | 19.7    | 3.6      | 109                      | 25.2        | 81     | -39 | 13.7          | -22.1            | -4.4          | 18.2      | -1     | 12     | 1.56  | 0.30    | 0.36     |  |
| 250040               |              |                   |  |                  |               |        |          |             |           |              |             |               | 61           | 51        | 44        | 60      | 55       | 53                       | 49          | 41     | 6   | 46            | 45               | 25            | 48        | 47     | 45     | 29    | 26      | 26       |  |
| ISHA250041           | 3            | MS 190080         |  | 91               | 116           | 84     | 88       | 108         | 97        | 114          | 96          | 113           | 89           | 109       | 113       | 116     | 84       | 96                       | 117         | 121    | 118 | 102           | 95               | 118           | 105       | 86     | 100    | 115   | 101     | 102      |  |
| 6020481344           |              | SCH 180388        |  | 60               | 61            | 53     | 43       | 41          | 48        | 27           | 44          | 12            | 1.23         | -0.40     | 22        | 21.2    | -6.0     | 33                       | 32.2        | 147    | -59 | 12.2          | -3.6             | -7.7          | 18.0      | -7     | 14     | 2.34  | 0.17    | 0.40     |  |
| 250041               |              |                   |  |                  |               |        |          |             |           |              |             |               | 62           | 53        | 43        | 61      | 53       | 52                       | 45          |        | 12  | 42            | 44               | 30            | 49        | 42     | 42     | 13    | 12      | 12       |  |
| ISHA250043           |              | MS 190080         |  | 71               | 127           | 97     | 89       | 104         | 102       | 107          | 99          | 115           | 73           | 97        | 110       | 127     | 97       | 119                      | 122         | 114    | 109 | 118           | 90               | 113           | 106       | 91     | 108    | 112   | 115     | 113      |  |
| 6020235336           |              | OKT 140038        |  | 67               | 61            | 55     | 35       | 40          | 48        | 20           | 42          | 14            | 2.55         | 0.07      | 19        | 27.5    | -2.3     | 86                       | 36.1        | 123    | -48 | 21.4          | 0.1              | -6.7          | 18.6      | -4     | 21     | 2.03  | 0.98    | 1.04     |  |
| 250043               |              |                   |  |                  |               |        |          |             |           |              |             |               | 70           | 57        | 35        | 61      | 55       | 50                       | 48          | 28     | 11  | 30            | 44               | 26            | 50        | 30     | 30     | 15    | 14      | 14       |  |

# Breeding Values and Accuracies: Bulls

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal                             |              |                          | Selection Values |               |           |           |             |           |              |             |               | Birth              |                    | Wean            |                   |                   |                          | Growth            |                  |                  | Fertility         |                    |                    |                   | Frame          |                 | Carcass           |                   |                   |
|------------------------------------|--------------|--------------------------|------------------|---------------|-----------|-----------|-------------|-----------|--------------|-------------|---------------|--------------------|--------------------|-----------------|-------------------|-------------------|--------------------------|-------------------|------------------|------------------|-------------------|--------------------|--------------------|-------------------|----------------|-----------------|-------------------|-------------------|-------------------|
| Index<br>EBV<br>Acc                | % Inbreeding | Sire ID<br>Dam ID        | Calv. Ease V     | Calv Growth V | Milk V    | Maint. V  | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir       | Birth mat          | Mature wt       | Wean wt           | Wean mat          | Cow-Calf<br>Ratio (Wean) | Postwean wt       | ADG              | FCR              | Scrotal Circ.     | Heifer Fertility   | Cow Fertility      | Longevity         | Height         | Length          | EMA               | Fat               | Marbling          |
| ID<br>Number<br>Name               |              |                          |                  |               |           |           |             |           |              |             |               |                    |                    |                 |                   |                   |                          |                   |                  |                  |                   |                    |                    |                   |                |                 |                   |                   |                   |
| ISHA250044<br>6020482326<br>250044 | 1            | BOS 188650<br>SCH 180388 | 108<br>52        | 107<br>61     | 79<br>52  | 105<br>42 | 101<br>43   | 99<br>46  | 112<br>27    | 98<br>42    | 107<br>10     | 103<br>0.09<br>54  | 125<br>-1.03<br>45 | 95<br>1<br>42   | 107<br>15.9<br>61 | 79<br>-7.2<br>52  | 90<br>19<br>52           | 107<br>24.8<br>50 | 118<br>138<br>44 | 116<br>-57<br>7  | 104<br>13.4<br>48 | 82<br>6.8<br>51    | 108<br>-5.7<br>28  | 110<br>21.3<br>49 | 95<br>-2<br>48 | 100<br>13<br>47 | 111<br>1.94<br>11 | 95<br>-0.16<br>10 | 99<br>0.26<br>10  |
| ISHA250064<br>6020481518<br>250064 | 5            | WO 170908<br>MS 190055   | 79<br>64         | 104<br>57     | 111<br>47 | 95<br>34  | 98<br>42    | 93<br>45  | 109<br>20    | 91<br>40    | 101<br>20     | 82<br>1.84<br>67   | 98<br>0.01<br>53   | 102<br>10<br>34 | 104<br>14.1<br>57 | 111<br>1.8<br>47  | 110<br>66<br>46          | 106<br>24.0<br>46 | 109<br>104<br>26 | 102<br>-41<br>13 | 108<br>15.6<br>30 | 103<br>-10.1<br>48 | 87<br>-1.5<br>30   | 106<br>18.7<br>49 | 100<br>1<br>29 | 102<br>16<br>28 | 106<br>1.41<br>21 | 92<br>-0.33<br>19 | 88<br>-0.41<br>19 |
| ISHA250067<br>6020186877<br>250067 | 1            | MS 210012<br>CR 210124   | 127<br>58        | 101<br>48     | 87<br>43  | 88<br>29  | 125<br>34   | 117<br>39 |              |             |               | 122<br>-1.49<br>62 | 105<br>-0.25<br>45 | 112<br>20<br>29 | 101<br>12.8<br>48 | 87<br>-5.1<br>43  | 85<br>6<br>40            | 104<br>21.8<br>42 | 102<br>80<br>32  |                  | 102<br>12.1<br>34 | 114<br>-18.7<br>36 | 141<br>-12.4<br>24 | 103<br>16.7<br>41 | 105<br>4<br>33 | 103<br>16<br>33 | 97<br>0.57<br>5   |                   |                   |
| ISHA250070<br>6020482409<br>250070 |              | MS 200305<br>SCH 150035  | 108<br>48        | 105<br>49     | 111<br>47 | 100<br>38 | 103<br>34   | 115<br>40 | 91<br>20     | 108<br>36   | 98<br>7       | 104<br>0.04<br>50  | 111<br>-0.50<br>43 | 97<br>4<br>38   | 105<br>14.8<br>49 | 111<br>1.7<br>47  | 114<br>74<br>45          | 102<br>20.6<br>34 | 97<br>61<br>30   | 97<br>-36<br>7   | 101<br>11.7<br>33 | 104<br>-10.6<br>39 | 102<br>-4.6<br>23  | 103<br>16.8<br>41 | 105<br>4<br>34 | 101<br>15<br>33 | 99<br>0.78<br>7   | 99<br>0.03<br>7   | 98<br>0.17<br>7   |
| ISHA250081<br>6020481336<br>250081 | 3            | MS 190080<br>SCH 180388  | 91<br>60         | 116<br>61     | 84<br>53  | 88<br>43  | 108<br>41   | 97<br>48  | 114<br>27    | 96<br>44    | 113<br>12     | 89<br>1.23<br>62   | 109<br>-0.40<br>53 | 113<br>22<br>43 | 116<br>21.2<br>61 | 84<br>-6.0<br>53  | 96<br>33<br>52           | 117<br>32.2<br>45 | 121<br>147<br>40 | 118<br>-59<br>12 | 102<br>12.2<br>42 | 95<br>-3.6<br>44   | 118<br>-7.7<br>30  | 105<br>18.0<br>49 | 86<br>-7<br>42 | 100<br>14<br>42 | 115<br>2.34<br>13 | 101<br>0.17<br>12 | 102<br>0.40<br>12 |
| ISHA250083<br>6020482375<br>250083 |              | BOS 177663<br>OKT 160008 | 96<br>60         | 113<br>60     | 91<br>56  | 94<br>41  | 93<br>41    | 93<br>48  | 101<br>26    | 89<br>44    | 101<br>32     | 94<br>0.85<br>61   | 108<br>-0.38<br>55 | 105<br>13<br>41 | 113<br>19.8<br>60 | 91<br>-4.1<br>56  | 102<br>48<br>52          | 114<br>29.8<br>52 | 107<br>97<br>45  |                  | 101<br>11.8<br>48 | 74<br>12.9<br>49   | 99<br>-3.9<br>23   | 108<br>19.5<br>52 | 86<br>-7<br>49 | 100<br>13<br>48 | 120<br>2.79<br>34 | 52<br>-2.70<br>31 | 86<br>-0.51<br>30 |
| ISHA250086<br>6020481369<br>250086 |              | WO 181048<br>OKT 160008  | 90<br>59         | 102<br>60     | 113<br>55 | 106<br>36 | 102<br>38   | 108<br>46 | 92<br>22     | 101<br>41   | 94<br>30      | 91<br>1.10<br>61   | 100<br>-0.04<br>52 | 93<br>0<br>36   | 102<br>13.5<br>60 | 113<br>2.3<br>55  | 115<br>78<br>50          | 100<br>19.2<br>52 | 94<br>52<br>34   | 86<br>-24<br>6   | 100<br>11.2<br>38 | 97<br>-5.4<br>45   | 100<br>-4.1<br>22  | 107<br>19.1<br>48 | 88<br>-6<br>39 | 92<br>6<br>37   | 99<br>0.72<br>31  | 101<br>0.16<br>28 | 98<br>0.19<br>27  |
| ISHA250088<br>6020481559<br>250088 |              | WO 181048<br>OKT 160008  | 90<br>59         | 102<br>60     | 113<br>55 | 106<br>36 | 102<br>38   | 108<br>46 | 92<br>22     | 101<br>41   | 94<br>30      | 91<br>1.10<br>61   | 100<br>-0.04<br>52 | 93<br>0<br>36   | 102<br>13.5<br>60 | 113<br>2.3<br>55  | 115<br>78<br>50          | 100<br>19.2<br>52 | 94<br>52<br>34   | 86<br>-24<br>6   | 100<br>11.2<br>38 | 97<br>-5.4<br>45   | 100<br>-4.1<br>22  | 107<br>19.1<br>48 | 88<br>-6<br>39 | 92<br>6<br>37   | 99<br>0.72<br>31  | 101<br>0.16<br>28 | 98<br>0.19<br>27  |
| ISHA250103<br>6020277569<br>250103 |              | BOS 199174               | 76<br>47         | 104<br>35     | 104<br>34 | 94<br>20  | 79<br>28    | 73<br>30  |              |             | 87<br>12      | 79<br>2.10<br>52   | 99<br>0.00<br>29   | 104<br>11<br>20 | 104<br>14.7<br>35 | 104<br>-0.3<br>34 | 104<br>53<br>30          | 101<br>20.1<br>27 | 88<br>27<br>19   | 88<br>-26<br>6   | 82<br>1.1<br>20   | 86<br>3.2<br>32    | 81<br>-0.2<br>21   | 86<br>6.3<br>31   | 96<br>-1<br>19 | 96<br>10<br>19  | 83<br>-0.78<br>13 | 95<br>-0.19<br>12 | 101<br>0.38<br>11 |
| ISHA250106<br>6020307002<br>250106 |              | BOS 199336               | 97<br>24         | 97<br>35      | 96<br>33  | 99<br>20  | 90<br>28    | 84<br>26  |              |             | 87<br>12      | 98<br>0.50<br>24   | 96<br>0.10<br>23   | 99<br>6<br>20   | 97<br>10.5<br>35  | 96<br>-2.4<br>33  | 93<br>25<br>29           | 95<br>15.2<br>28  | 88<br>28<br>18   | 88<br>-26<br>6   | 83<br>1.2<br>19   | 97<br>-4.8<br>32   | 96<br>-3.3<br>21   | 86<br>6.2<br>31   | 93<br>-3<br>19 | 95<br>9<br>19   | 84<br>-0.76<br>13 | 94<br>-0.23<br>12 | 101<br>0.34<br>12 |
| ISHA260001<br>6020306954<br>260001 |              | BOS 199348               | 102<br>27        | 96<br>35      | 102<br>34 | 103<br>22 | 91<br>30    | 92<br>27  |              |             | 89<br>16      | 99<br>0.44<br>27   | 110<br>-0.44<br>25 | 95<br>2<br>22   | 96<br>9.7<br>35   | 102<br>-0.9<br>34 | 98<br>36<br>30           | 92<br>13.2<br>30  | 92<br>42<br>22   | 96<br>-34<br>11  | 88<br>4.3<br>23   | 97<br>-5.3<br>32   | 98<br>-3.8<br>26   | 87<br>6.7<br>32   | 91<br>-4<br>23 | 95<br>9<br>23   | 86<br>-0.52<br>17 | 98<br>-0.04<br>16 | 99<br>0.24<br>16  |
| ISHA260002<br>6020679350<br>260002 |              | SCH 150035               | 104<br>37        | 105<br>38     | 103<br>40 | 106<br>36 | 93<br>28    | 104<br>33 |              |             |               | 100<br>0.33<br>37  | 110<br>-0.44<br>35 | 94<br>0<br>36   | 105<br>14.9<br>38 | 103<br>-0.5<br>40 | 109<br>64<br>38          | 100<br>19.4<br>23 | 93<br>49<br>28   |                  | 96<br>9.0<br>32   | 100<br>-7.7<br>32  | 101<br>-4.2<br>19  | 85<br>5.5<br>32   | 103<br>3<br>32 | 96<br>10<br>31  |                   |                   |                   |

Breeding Values and Accuracies: Bulls

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal              |              |                   | Selection Values |               |        |          |             |           |              |             | Birth         |              | Wean      |           |         |          | Growth                |             |     | Fertility |               |                  |               | Frame     |        | Carcass |       |       |          |
|---------------------|--------------|-------------------|------------------|---------------|--------|----------|-------------|-----------|--------------|-------------|---------------|--------------|-----------|-----------|---------|----------|-----------------------|-------------|-----|-----------|---------------|------------------|---------------|-----------|--------|---------|-------|-------|----------|
| Index<br>EBV<br>Acc | % Inbreeding | Sire ID<br>Dam ID | Calv. Ease V     | Calf Growth V | Milk V | Maint. V | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt | Wean wt | Wean mat | Cow-Calf Ratio (Wean) | Postwean wt | ADG | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA   | Fat   | Marbling |
|                     |              |                   |                  |               |        |          |             |           |              |             |               |              |           |           |         |          |                       |             |     |           |               |                  |               |           |        |         |       |       |          |
| ISHA260011          |              | BOS 177663        | 90               | 116           | 93     | 93       | 101         | 100       | 104          | 96          | 107           | 87           | 112       | 106       | 116     | 93       | 107                   | 116         | 112 | 107       | 102           | 85               | 108           | 109       | 84     | 102     | 125   | 59    | 91       |
| 6020738008          |              | BOS 199722        | 48               | 57            | 49     | 34       | 41          | 43        | 26           | 40          | 32            | 1.44         | -0.55     | 14        | 21.5    | -3.4     | 59                    | 31.3        | 116 | -47       | 12.5          | 4.4              | -5.6          | 20.4      | -8     | 15      | 3.28  | -2.28 | -0.20    |
| 260011              |              |                   |                  |               |        |          |             |           |              |             |               | 50           | 43        | 34        | 57      | 49       | 47                    | 47          | 44  | 5         | 47            | 49               | 24            | 49        | 48     | 47      | 33    | 30    | 29       |
| ISHA260017          |              | WO 980062         | 89               | 112           | 98     | 94       | 105         | 102       | 105          | 99          | 106           | 89           | 104       | 104       | 112     | 98       | 108                   | 114         | 111 | 113       | 101           | 110              | 99            | 104       | 98     | 105     | 107   | 108   | 102      |
| 6020788029          | 11           | BOS 211378        | 55               | 60            | 58     | 50       | 55          | 51        | 38           | 48          | 35            | 1.27         | -0.21     | 11        | 19.1    | -1.9     | 61                    | 29.9        | 110 | -54       | 11.6          | -15.0            | -3.9          | 17.3      | 0      | 18      | 1.49  | 0.58  | 0.39     |
| 260017              |              |                   |                  |               |        |          |             |           |              |             |               | 55           | 54        | 50        | 60      | 58       | 56                    | 55          | 50  | 25        | 51            | 58               | 49            | 57        | 51     | 50      | 36    | 34    | 33       |
| ISHA260018          |              | MS 200305         | 99               | 92            | 113    | 100      | 102         | 100       |              |             | 90            | 96           | 108       | 97        | 92      | 113      | 101                   | 93          | 95  | 91        | 96            | 108              | 91            | 107       | 94     | 95      | 93    | 92    | 85       |
| 6020773898          | 3            | MS 210096         | 58               | 45            | 37     | 20       | 32          | 36        |              |             | 12            | 0.65         | -0.38     | 4         | 7.3     | 2.2      | 45                    | 13.9        | 53  | -29       | 9.1           | -13.6            | -2.3          | 19.4      | -2     | 9       | 0.21  | -0.36 | -0.57    |
| 260018              |              |                   |                  |               |        |          |             |           |              |             |               | 62           | 42        | 20        | 45      | 37       | 34                    | 32          | 17  | 8         | 19            | 36               | 21            | 38        | 18     | 18      | 12    | 11    | 10       |
| ISHA260019          |              | WO 220493         | 122              | 108           | 103    | 86       | 110         | 116       |              |             | 109           | 123          | 89        | 114       | 108     | 103      | 103                   | 110         | 110 | 106       | 107           | 104              | 114           | 105       | 107    | 112     | 106   | 106   | 95       |
| 6020773906          | 1            | CR 210132         | 57               | 46            | 39     | 27       | 28          | 37        |              |             | 8             | -1.54        | 0.39      | 23        | 16.7    | -0.6     | 49                    | 26.9        | 107 | -46       | 15.2          | -10.7            | -6.8          | 18.1      | 5      | 25      | 1.43  | 0.45  | 0.03     |
| 260019              |              |                   |                  |               |        |          |             |           |              |             |               | 62           | 41        | 27        | 46      | 39       | 37                    | 39          | 27  | 7         | 29            | 29               | 18            | 36        | 29     | 28      | 8     | 7     | 7        |
| ISHA260025          |              | WO 220493         | 94               | 108           | 106    | 104      | 97          | 106       |              |             | 101           | 94           | 101       | 94        | 108     | 106      | 114                   | 108         | 102 | 101       | 102           | 95               | 92            | 107       | 104    | 106     | 99    | 102   | 96       |
| 6020821994          | 1            | BOS 188509        | 55               | 46            | 41     | 20       | 30          | 36        |              |             | 10            | 0.82         | -0.11     | 1         | 16.6    | 0.2      | 76                    | 25.0        | 79  | -40       | 12.0          | -3.3             | -2.5          | 19.1      | 4      | 19      | 0.77  | 0.20  | 0.07     |
| 260025              |              |                   |                  |               |        |          |             |           |              |             |               | 60           | 37        | 20        | 46      | 41       | 36                    | 36          | 22  | 8         | 24            | 34               | 19            | 38        | 24     | 23      | 10    | 9     | 9        |
| ISHA260108          |              | WO 230497         | 114              | 84            | 102    | 123      | 82          | 93        |              |             |               | 112          | 100       | 78        | 84      | 102      | 92                    | 84          | 78  |           | 90            | 92               | 87            | 82        | 91     | 85      | 71    |       |          |
| 6020888878          |              |                   | 32               | 33            | 26     | 20       | 19          | 24        |              |             |               | -0.68        | -0.06     | -18       | 2.9     | -0.7     | 24                    | 6.9         | -6  |           | 5.7           | -1.4             | -1.4          | 3.6       | -4     | -1      | -1.99 |       |          |
| 250108              |              |                   |                  |               |        |          |             |           |              |             |               | 34           | 26        | 20        | 33      | 26       | 26                    | 22          | 17  |           | 19            | 23               | 11            | 23        | 19     | 19      | 5     |       |          |
| ISHA260109          |              | WO 230897         | 110              | 87            | 97     | 107      | 82          |           |              |             |               | 112          | 90        | 93        | 87      | 97       | 84                    | 85          | 81  |           | 90            | 89               | 88            | 82        | 92     | 85      |       |       |          |
| 6020888886          |              |                   | 27               | 28            | 19     | 10       | 12          |           |              |             |               | -0.66        | 0.32      | 0         | 4.5     | -2.3     | 4                     | 7.4         | 2   |           | 5.4           | 0.9              | -1.8          | 3.9       | -3     | -1      |       |       |          |
| 260109              |              |                   |                  |               |        |          |             |           |              |             |               | 29           | 19        | 10        | 28      | 19       | 19                    | 18          | 6   |           | 7             | 11               | 7             | 18        | 7      | 6       |       |       |          |
| ISHA260127          |              | MS 180071         | 106              | 88            | 107    | 113      | 86          | 93        |              |             | 82            | 106          | 98        | 88        | 88      | 107      | 97                    | 85          | 87  | 83        | 94            | 83               | 98            | 88        | 91     | 88      | 84    | 101   | 105      |
| 6020841760          |              |                   | 53               | 36            | 37     | 19       | 27          | 32        |              |             | 10            | -0.18        | 0.04      | -6        | 5.3     | 0.6      | 34                    | 7.7         | 24  | -20       | 7.8           | 5.9              | -3.7          | 7.2       | -4     | 2       | -0.74 | 0.18  | 0.55     |
| 260127              |              |                   |                  |               |        |          |             |           |              |             |               | 57           | 38        | 19        | 36      | 37       | 31                    | 28          | 16  | 10        | 18            | 32               | 17            | 32        | 18     | 17      | 11    | 10    | 10       |
| ISHA260128          |              | MS 200053         | 116              | 88            | 103    | 112      | 89          | 97        |              |             | 83            | 115          | 99        | 89        | 88      | 103      | 92                    | 87          | 86  | 83        | 94            | 91               | 96            | 90        | 93     | 89      | 84    | 98    | 100      |
| 6020841745          |              |                   | 52               | 35            | 36     | 19       | 25          | 31        |              |             | 10            | -0.89        | -0.02     | -5        | 5.4     | -0.6     | 24                    | 8.9         | 22  | -20       | 7.7           | -0.2             | -3.3          | 8.7       | -3     | 3       | -0.69 | 0.01  | 0.30     |
| 260128              |              |                   |                  |               |        |          |             |           |              |             |               | 56           | 37        | 19        | 35      | 36       | 30                    | 26          | 16  | 10        | 18            | 29               | 15            | 31        | 18     | 17      | 11    | 10    | 10       |

# Breeding Values and Accuracies: Cows

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

| Inbreeding in red is high            |              |                          |              | Value <80        |           |           |             | Value >120 |              |             |               | Breeding values with an accuracy < 5% are not printed |                    |                 |                   |                   |                       |                   |                  |                  |                   |                    |                   |                   |                 |                 |                   |                   |                   |
|--------------------------------------|--------------|--------------------------|--------------|------------------|-----------|-----------|-------------|------------|--------------|-------------|---------------|-------------------------------------------------------|--------------------|-----------------|-------------------|-------------------|-----------------------|-------------------|------------------|------------------|-------------------|--------------------|-------------------|-------------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Animal                               |              |                          |              | Selection Values |           |           |             |            |              |             |               | Birth                                                 |                    | Wean            |                   |                   |                       | Growth            |                  |                  | Fertility         |                    |                   |                   | Frame           |                 | Carcass           |                   |                   |
| Index<br>EBV<br>Acc                  | % Inbreeding | Sire ID<br>Dam ID        | Calv. Ease V | Calf Growth V    | Milk V    | Maint. V  | Fertility V | Cow Value  | Growth Value | Prod. Value | Carcass Value | Birth wt dir                                          | Birth mat          | Mature wt       | Wean wt           | Wean mat          | Cow-Calf Ratio (Wean) | Postwean wt       | ADG              | FCR              | Scrotal Circ.     | Heifer Fertility   | Cow Fertility     | Longevity         | Height          | Length          | EMA               | Fat               | Marbling          |
| ID<br>Number<br>Name                 |              |                          |              |                  |           |           |             |            |              |             |               |                                                       |                    |                 |                   |                   |                       |                   |                  |                  |                   |                    |                   |                   |                 |                 |                   |                   |                   |
| OKT 140038<br>80169253<br>OKT 140038 | 13           | OKT 100051<br>OKT 100050 | 69<br>81     | 125<br>79        | 114<br>81 | 94<br>49  | 95<br>53    | 107<br>64  | 105<br>20    | 103<br>55   | 112<br>19     | 72<br>2.65<br>81                                      | 92<br>0.27<br>79   | 103<br>10<br>49 | 125<br>26.8<br>79 | 114<br>2.7<br>81  | 136<br>127<br>70      | 117<br>32.4<br>65 | 112<br>117<br>32 | 105<br>-44<br>6  | 121<br>23.2<br>35 | 70<br>16.3<br>63   | 104<br>-4.8<br>30 | 113<br>22.7<br>67 | 103<br>3<br>35  | 112<br>24<br>34 | 105<br>1.31<br>20 | 119<br>1.23<br>18 | 119<br>1.35<br>18 |
| SCH 150035<br>82284431<br>SCH150035  |              | SCH 120054<br>SCH 130216 | 101<br>74    | 126<br>76        | 100<br>80 | 95<br>73  | 117<br>55   | 130<br>66  | 102<br>34    | 124<br>60   | 112<br>6      | 96<br>0.68<br>75                                      | 124<br>-0.99<br>71 | 103<br>10<br>73 | 126<br>27.3<br>76 | 100<br>-1.4<br>80 | 125<br>101<br>76      | 120<br>34.4<br>46 | 110<br>108<br>57 | 112<br>-52<br>7  | 110<br>16.5<br>63 | 119<br>-22.3<br>63 | 113<br>-6.8<br>39 | 109<br>20.3<br>64 | 116<br>11<br>64 | 109<br>22<br>62 | 111<br>1.98<br>6  | 103<br>0.26<br>6  | 110<br>0.84<br>5  |
| OKT 160008<br>84704535<br>OKT 160008 | 10           | OKT 100051<br>OKT 030009 | 107<br>76    | 105<br>74        | 90<br>78  | 107<br>50 | 100<br>52   | 104<br>61  | 89<br>21     | 97<br>53    | 92<br>19      | 104<br>-0.02<br>76                                    | 104<br>-0.23<br>75 | 94<br>0<br>50   | 105<br>15.0<br>74 | 90<br>-4.1<br>78  | 98<br>38<br>67        | 104<br>22.4<br>62 | 94<br>50<br>33   | 84<br>-21<br>6   | 101<br>11.5<br>36 | 76<br>11.1<br>61   | 110<br>-6.0<br>32 | 112<br>22.1<br>64 | 101<br>2<br>37  | 97<br>10<br>36  | 94<br>0.31<br>20  | 98<br>-0.01<br>18 | 104<br>0.50<br>17 |
| BOS 188509<br>90099870<br>BOS188509  |              | BOS 155687<br>BOS 166030 | 98<br>54     | 104<br>69        | 96<br>64  | 109<br>31 | 102<br>52   | 105<br>51  | 99<br>26     | 100<br>46   | 98<br>14      | 96<br>0.63<br>55                                      | 105<br>-0.25<br>51 | 92<br>-2<br>31  | 104<br>14.5<br>69 | 96<br>-2.6<br>64  | 103<br>48<br>55       | 107<br>24.3<br>56 | 99<br>69<br>40   | 91<br>-30<br>10  | 92<br>6.3<br>43   | 106<br>-12.2<br>62 | 94<br>-2.8<br>35  | 108<br>19.7<br>60 | 94<br>-2<br>44  | 102<br>15<br>43 | 101<br>0.94<br>15 | 99<br>0.05<br>14  | 99<br>0.26<br>13  |
| MS 180071<br>87392767<br>MS180071    |              | VYF 150036<br>MS 150062  | 111<br>74    | 92<br>73         | 107<br>74 | 109<br>38 | 104<br>53   | 110<br>58  | 97<br>26     | 104<br>52   | 92<br>20      | 110<br>-0.53<br>75                                    | 99<br>0.00<br>71   | 92<br>-2<br>38  | 92<br>7.6<br>73   | 107<br>0.6<br>74  | 100<br>41<br>62       | 89<br>10.3<br>56  | 96<br>59<br>32   | 80<br>-17<br>19  | 105<br>14.2<br>35 | 84<br>5.0<br>63    | 108<br>-5.8<br>34 | 114<br>23.6<br>63 | 92<br>-3<br>35  | 93<br>7<br>35   | 103<br>1.14<br>21 | 109<br>0.66<br>20 | 111<br>0.95<br>20 |
| MS 180114<br>87393138<br>MS180114    |              | WO 120465<br>MS 120117   | 93<br>74     | 100<br>73        | 107<br>77 | 94<br>40  | 105<br>55   | 98<br>59   | 89<br>22     | 92<br>52    | 94<br>8       | 91<br>1.08<br>74                                      | 107<br>-0.34<br>72 | 104<br>12<br>40 | 100<br>11.9<br>73 | 107<br>0.5<br>77  | 102<br>46<br>63       | 98<br>17.3<br>55  | 93<br>45<br>35   | 84<br>-22<br>6   | 107<br>14.9<br>38 | 101<br>-8.2<br>65  | 103<br>-4.6<br>38 | 109<br>20.1<br>62 | 107<br>6<br>39  | 103<br>17<br>38 | 93<br>0.19<br>8   | 108<br>0.57<br>8  | 98<br>0.16<br>7   |
| BOS 199174<br>89732150<br>BOS199174  | 4            | BOS 144056<br>BOS 133126 | 82<br>52     | 112<br>70        | 93<br>68  | 80<br>40  | 89<br>56    | 76<br>53   | 93<br>26     | 72<br>48    | 101<br>24     | 87<br>1.37<br>52                                      | 88<br>0.42<br>52   | 123<br>33<br>40 | 112<br>18.9<br>70 | 93<br>-3.2<br>68  | 96<br>32<br>59        | 109<br>26.0<br>54 | 98<br>66<br>37   | 89<br>-28<br>12  | 82<br>0.6<br>39   | 91<br>-0.5<br>64   | 73<br>1.4<br>42   | 111<br>21.8<br>62 | 101<br>2<br>38  | 109<br>22<br>38 | 102<br>1.05<br>25 | 97<br>-0.07<br>23 | 105<br>0.59<br>23 |
| BOS 199336<br>89907760<br>BOS199336  | 4            | BOS 144056<br>BOS 133452 | 90<br>48     | 111<br>69        | 86<br>66  | 87<br>40  | 110<br>56   | 95<br>52   | 95<br>24     | 90<br>46    | 100<br>25     | 92<br>1.02<br>48                                      | 96<br>0.09<br>47   | 114<br>23<br>40 | 111<br>18.6<br>69 | 86<br>-5.3<br>66  | 93<br>26<br>58        | 109<br>26.0<br>55 | 99<br>67<br>36   | 91<br>-29<br>11  | 82<br>0.8<br>38   | 112<br>-16.5<br>64 | 104<br>-4.8<br>43 | 111<br>21.5<br>62 | 95<br>-1<br>38  | 107<br>20<br>37 | 102<br>1.10<br>26 | 95<br>-0.16<br>24 | 104<br>0.53<br>23 |
| BOS 199340<br>89907794<br>BOS199340  | 3            | BOS 144062<br>BOS 144106 | 95<br>46     | 109<br>69        | 96<br>65  | 97<br>39  | 101<br>54   | 100<br>51  | 101<br>26    | 96<br>46    | 101<br>20     | 89<br>1.21<br>46                                      | 117<br>-0.74<br>45 | 101<br>8<br>39  | 109<br>17.2<br>69 | 96<br>-2.6<br>65  | 104<br>51<br>58       | 107<br>24.7<br>54 | 104<br>87<br>39  | 97<br>-36<br>11  | 79<br>-0.6<br>42  | 103<br>-9.4<br>64  | 86<br>-1.3<br>39  | 115<br>24.3<br>60 | 93<br>-2<br>42  | 106<br>19<br>41 | 104<br>1.21<br>21 | 87<br>-0.62<br>20 | 100<br>0.28<br>19 |
| BOS 199348<br>89907851<br>BOS199348  | 4            | BOS 133097<br>BOS 144066 | 98<br>54     | 108<br>70        | 97<br>68  | 93<br>43  | 114<br>60   | 109<br>55  | 98<br>34     | 103<br>51   | 105<br>33     | 93<br>0.91<br>55                                      | 124<br>-0.99<br>51 | 106<br>13<br>43 | 108<br>16.9<br>70 | 97<br>-2.1<br>68  | 102<br>48<br>60       | 104<br>21.9<br>59 | 106<br>96<br>45  | 105<br>-44<br>21 | 93<br>7.1<br>47   | 113<br>-17.4<br>65 | 109<br>-5.8<br>50 | 113<br>22.6<br>64 | 93<br>-3<br>47  | 107<br>20<br>46 | 107<br>1.57<br>34 | 102<br>0.23<br>32 | 100<br>0.31<br>32 |
| BOS 199722<br>89731574<br>BOS199721  | 1            | BOS 155322<br>BOS 144883 | 94<br>34     | 111<br>65        | 95<br>60  | 102<br>26 | 118<br>51   | 116<br>44  | 95<br>20     | 110<br>39   | 104<br>14     | 90<br>1.16<br>34                                      | 113<br>-0.55<br>32 | 96<br>3<br>26   | 111<br>18.5<br>65 | 95<br>-2.7<br>60  | 108<br>61<br>50       | 108<br>25.4<br>46 | 104<br>87<br>27  | 100<br>-39<br>9  | 103<br>12.9<br>30 | 98<br>-5.9<br>60   | 127<br>-9.4<br>36 | 115<br>23.9<br>56 | 97<br>0<br>30   | 101<br>14<br>29 | 104<br>1.27<br>15 | 112<br>0.84<br>13 | 115<br>1.14<br>13 |
| MS 190159<br>89097836<br>MS190159    |              | WO 140165<br>MS 080817   | 106<br>72    | 100<br>69        | 88<br>73  | 90<br>30  | 120<br>49   | 104<br>55  |              |             | 89<br>12      | 104<br>0.01<br>73                                     | 104<br>-0.20<br>70 | 109<br>18<br>30 | 100<br>12.1<br>69 | 88<br>-4.8<br>73  | 85<br>7<br>57         | 97<br>16.7<br>47  | 95<br>55<br>20   | 94<br>-33<br>8   | 96<br>8.9<br>23   | 139<br>-38.2<br>58 | 105<br>-5.1<br>31 | 108<br>19.6<br>58 | 99<br>1<br>21   | 94<br>8<br>21   | 92<br>0.08<br>12  | 80<br>-1.06<br>11 | 73<br>-1.25<br>11 |

# Breeding Values and Accuracies: Cows

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal                              |              |                          | Selection Values |               |           |           |             |           |              |             | Birth         |                    | Wean               |                 |                   |                   | Growth                |                   |                  | Fertility       |                   |                    |                    | Frame             |                 | Carcass         |                   |                   |                   |
|-------------------------------------|--------------|--------------------------|------------------|---------------|-----------|-----------|-------------|-----------|--------------|-------------|---------------|--------------------|--------------------|-----------------|-------------------|-------------------|-----------------------|-------------------|------------------|-----------------|-------------------|--------------------|--------------------|-------------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Index<br>EBV<br>Acc                 | % Inbreeding | Sire ID<br>Dam ID        | Calv. Ease V     | Calf Growth V | Milk V    | Maint. V  | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir       | Birth mat          | Mature wt       | Wean wt           | Wean mat          | Cow-Calf Ratio (Wean) | Postwean wt       | ADG              | FCR             | Scrotal Circ.     | Heifer Fertility   | Cow Fertility      | Longevity         | Height          | Length          | EMA               | Fat               | Marbling          |
| ID<br>Number<br>Name                |              |                          |                  |               |           |           |             |           |              |             |               |                    |                    |                 |                   |                   |                       |                   |                  |                 |                   |                    |                    |                   |                 |                 |                   |                   |                   |
| MS 190205<br>89098149<br>MS190205   |              | WO 120465<br>MS 110832   | 109<br>70        | 95<br>67      | 100<br>65 | 108<br>38 | 111<br>50   | 112<br>54 | 81<br>22     | 102<br>48   | 79<br>8       | 108<br>-0.30<br>71 | 102<br>-0.13<br>67 | 93<br>-1<br>38  | 95<br>9.5<br>67   | 100<br>-1.4<br>65 | 97<br>34<br>57        | 94<br>14.7<br>52  | 80<br>-2<br>35   | 68<br>-5<br>6   | 96<br>9.0<br>38   | 101<br>-8.4<br>60  | 105<br>-5.0<br>32  | 119<br>26.3<br>58 | 94<br>-2<br>39  | 88<br>2<br>38   | 83<br>-0.83<br>8  | 100<br>0.13<br>8  | 80<br>-0.81<br>7  |
| MS 190399<br>89945372<br>MS190399   |              | WO 120465<br>MS 120055   | 104<br>71        | 99<br>67      | 109<br>64 | 100<br>38 | 107<br>51   | 109<br>54 | 86<br>22     | 101<br>48   | 89<br>8       | 99<br>0.45<br>72   | 123<br>-0.97<br>68 | 98<br>4<br>38   | 99<br>11.6<br>67  | 109<br>1.0<br>64  | 106<br>55<br>56       | 98<br>17.2<br>52  | 89<br>31<br>35   | 80<br>-17<br>6  | 103<br>13.0<br>38 | 104<br>-10.5<br>61 | 108<br>-5.7<br>34  | 105<br>18.0<br>59 | 103<br>3<br>39  | 99<br>12<br>38  | 89<br>-0.22<br>8  | 107<br>0.52<br>8  | 96<br>0.06<br>7   |
| MS 200053<br>90456922<br>MS200053   |              | VYF 150036<br>MS 170304  | 127<br>73        | 95<br>70      | 100<br>71 | 105<br>37 | 110<br>50   | 117<br>56 | 98<br>26     | 111<br>50   | 92<br>20      | 122<br>-1.52<br>74 | 104<br>-0.20<br>69 | 94<br>0<br>37   | 95<br>8.9<br>70   | 100<br>-1.5<br>71 | 95<br>29<br>59        | 94<br>14.3<br>51  | 95<br>56<br>31   | 80<br>-17<br>19 | 105<br>14.0<br>35 | 100<br>-7.3<br>58  | 104<br>-4.8<br>30  | 119<br>26.6<br>62 | 96<br>-1<br>35  | 95<br>8<br>34   | 104<br>1.24<br>21 | 104<br>0.33<br>20 | 102<br>0.43<br>20 |
| MS 200252<br>91099424<br>MS200252   | 1            | MS 170412<br>MS 180094   | 102<br>63        | 98<br>63      | 112<br>59 | 100<br>21 | 107<br>42   | 110<br>47 |              |             | 91<br>6       | 104<br>0.04<br>65  | 94<br>0.17<br>54   | 97<br>4<br>21   | 98<br>10.7<br>63  | 112<br>1.9<br>59  | 107<br>59<br>48       | 96<br>15.6<br>41  | 93<br>46<br>20   | 88<br>-26<br>5  | 106<br>14.6<br>21 | 105<br>-11.7<br>55 | 99<br>-3.8<br>22   | 114<br>23.2<br>49 | 105<br>4<br>22  | 99<br>13<br>21  | 92<br>0.04<br>6   | 94<br>-0.25<br>6  | 83<br>-0.66<br>6  |
| MS 200269<br>91099564<br>MS200269   | 2            | MS 150092<br>MS 110086   | 104<br>72        | 103<br>71     | 96<br>69  | 93<br>43  | 113<br>54   | 106<br>57 | 95<br>32     | 100<br>52   | 94<br>18      | 101<br>0.25<br>73  | 131<br>-1.27<br>68 | 105<br>13<br>43 | 103<br>14.1<br>71 | 96<br>-2.6<br>69  | 96<br>33<br>61        | 104<br>22.1<br>58 | 96<br>59<br>46   | 88<br>-26<br>16 | 115<br>19.9<br>49 | 109<br>-14.4<br>64 | 112<br>-6.6<br>38  | 110<br>20.9<br>61 | 115<br>10<br>49 | 105<br>19<br>48 | 97<br>0.56<br>18  | 99<br>0.03<br>17  | 80<br>-0.87<br>17 |
| TG 200035<br>90161118<br>TG200035   |              | TG 150077                | 101<br>48        | 88<br>49      | 106<br>31 |           |             |           |              |             |               | 102<br>0.13<br>52  | 96<br>0.12<br>33   |                 | 88<br>5.1<br>49   | 106<br>0.4<br>31  |                       | 86<br>8.4<br>22   |                  |                 | 91<br>-0.5<br>11  |                    | 84<br>4.7<br>26    |                   |                 |                 |                   |                   |                   |
| TG 200062<br>90291956<br>TG200062   |              | BOS 110085<br>BA 140278  | 69<br>70         | 115<br>69     | 110<br>59 | 92<br>40  | 106<br>51   | 101<br>54 | 93<br>23     | 95<br>48    | 98<br>12      | 77<br>2.20<br>72   | 82<br>0.67<br>65   | 106<br>14<br>40 | 115<br>20.8<br>69 | 110<br>1.5<br>59  | 120<br>88<br>56       | 108<br>24.9<br>54 | 101<br>75<br>35  | 101<br>-40<br>8 | 93<br>7.4<br>38   | 117<br>-20.5<br>53 | 105<br>-5.1<br>39  | 95<br>11.5<br>62  | 106<br>5<br>38  | 99<br>12<br>37  | 96<br>0.46<br>12  | 116<br>1.02<br>11 | 111<br>0.90<br>11 |
| TG 200228<br>90959644<br>TG200228   |              | TG 160020                | 104<br>50        | 84<br>50      | 106<br>32 |           | 80<br>16    |           |              |             |               | 106<br>-0.17<br>54 | 91<br>0.32<br>35   |                 | 84<br>3.0<br>50   | 106<br>0.2<br>32  |                       | 83<br>5.6<br>8    |                  |                 | 82<br>6.9<br>17   | 90<br>-2.1<br>5    | 83<br>4.0<br>27    |                   |                 |                 |                   |                   |                   |
| BOS 211011<br>91548040<br>BOS211011 | 5            | BOS 155069<br>BOS 144348 | 91<br>53         | 105<br>68     | 99<br>63  | 91<br>39  | 123<br>54   | 109<br>52 | 100<br>24    | 104<br>46   | 98<br>18      | 93<br>0.89<br>54   | 95<br>0.14<br>51   | 108<br>16<br>39 | 105<br>15.0<br>68 | 99<br>-1.6<br>63  | 100<br>41<br>57       | 104<br>22.1<br>56 | 102<br>78<br>32  | 94<br>-32<br>13 | 96<br>9.1<br>34   | 126<br>-27.5<br>63 | 116<br>-7.2<br>39  | 114<br>23.6<br>59 | 95<br>-2<br>34  | 98<br>11<br>34  | 97<br>0.53<br>19  | 95<br>-0.19<br>17 | 106<br>0.64<br>17 |
| BOS 211378<br>92821750<br>BOS211378 | 3            | BOS 166052<br>BOS 144349 | 87<br>49         | 110<br>68     | 105<br>60 | 90<br>32  | 113<br>52   | 108<br>49 | 115<br>21    | 106<br>43   | 111<br>18     | 85<br>1.54<br>50   | 109<br>-0.42<br>47 | 108<br>16<br>32 | 110<br>18.1<br>68 | 105<br>-0.1<br>60 | 110<br>65<br>53       | 111<br>27.5<br>51 | 121<br>147<br>32 | 115<br>-55<br>8 | 109<br>16.2<br>35 | 115<br>-19.5<br>64 | 101<br>-4.3<br>35  | 115<br>24.0<br>58 | 107<br>6<br>35  | 109<br>22<br>34 | 107<br>1.53<br>19 | 95<br>-0.18<br>18 | 99<br>0.26<br>17  |
| CR 210124<br>92687201<br>CR210124   | 1            | SCH 150018<br>CR 170068  | 122<br>68        | 118<br>68     | 85<br>60  | 77<br>46  | 132<br>48   | 125<br>54 | 115<br>29    | 122<br>49   | 114<br>8      | 121<br>-1.40<br>70 | 95<br>0.16<br>63   | 128<br>39<br>46 | 118<br>22.5<br>68 | 85<br>-5.7<br>60  | 94<br>27<br>58        | 125<br>38.1<br>64 | 117<br>135<br>49 | 110<br>-50<br>7 | 102<br>12.0<br>52 | 117<br>-20.6<br>52 | 149<br>-13.9<br>35 | 105<br>17.6<br>58 | 102<br>3<br>51  | 112<br>25<br>50 | 114<br>2.18<br>9  | 105<br>0.41<br>8  | 91<br>-0.21<br>8  |
| CR 210132<br>92687284<br>CR210132   | 1            | SCH 150018<br>CR 170058  | 123<br>68        | 117<br>67     | 96<br>60  | 75<br>46  | 127<br>47   | 127<br>53 | 115<br>30    | 124<br>48   | 115<br>8      | 123<br>-1.59<br>69 | 92<br>0.28<br>63   | 131<br>42<br>46 | 117<br>21.9<br>67 | 96<br>-2.5<br>60  | 100<br>42<br>58       | 123<br>36.8<br>62 | 115<br>126<br>52 | 103<br>-43<br>7 | 103<br>12.7<br>55 | 125<br>-27.0<br>51 | 136<br>-11.3<br>32 | 105<br>17.6<br>57 | 100<br>1<br>55  | 114<br>27<br>54 | 114<br>2.25<br>9  | 108<br>0.54<br>8  | 98<br>0.18<br>8   |

# Breeding Values and Accuracies: Cows

Green: >120    High  
White: 80-120 Average  
Orange: <80    Low

| Inbreeding in red is high              |              |                          |              |                  |           |           |             |           |              | Value <80   |               | Value >120         |                    | Breeding values with an accuracy < 5% are not printed |                   |                   |                       |             |                   |                 |                  |                   |                    |                   |                   |                 |                 |                   |                   |                   |
|----------------------------------------|--------------|--------------------------|--------------|------------------|-----------|-----------|-------------|-----------|--------------|-------------|---------------|--------------------|--------------------|-------------------------------------------------------|-------------------|-------------------|-----------------------|-------------|-------------------|-----------------|------------------|-------------------|--------------------|-------------------|-------------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Animal                                 |              |                          |              | Selection Values |           |           |             |           |              |             | Birth         |                    | Wean               |                                                       |                   |                   | Growth                |             |                   | Fertility       |                  |                   |                    | Frame             |                   | Carcass         |                 |                   |                   |                   |
| Index<br>EBV<br>Acc                    | % Inbreeding | Sire ID<br>Dam ID        | Calv. Ease V | Calf Growth V    | Milk V    | Maint. V  | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir       | Birth mat          | Mature wt                                             | Wean wt           | Wean mat          | Cow-Calf Ratio (Wean) | Postwean wt | ADG               | FCR             | Scrotal Circ.    | Heifer Fertility  | Cow Fertility      | Longevity         | Height            | Length          | EMA             | Fat               | Marbling          |                   |
| ID Number<br>Name                      |              |                          |              |                  |           |           |             |           |              |             |               |                    |                    |                                                       |                   |                   |                       |             |                   |                 |                  |                   |                    |                   |                   |                 |                 |                   |                   |                   |
| MS 210026<br>92678994<br>MS210026      |              | MS 160325                | 99<br>58     | 88<br>53         | 107<br>36 | 105<br>18 | 79<br>38    | 80<br>38  |              |             |               | 96<br>0.70<br>60   | 111<br>-0.48<br>49 | 94<br>0<br>18                                         | 88<br>5.3<br>53   | 107<br>0.7<br>36  | 94<br>29<br>36        |             | 87<br>9.2<br>34   | 88<br>30<br>16  |                  | 89<br>4.6<br>17   | 75<br>12.2<br>50   | 89<br>-1.9<br>21  | 88<br>7.6<br>42   | 97<br>0<br>17   | 93<br>7<br>17   |                   |                   |                   |
| MS 210032<br>92679042<br>MS210032      |              | MS 150092<br>MS 150071   | 99<br>70     | 101<br>65        | 92<br>56  | 92<br>36  | 98<br>50    | 88<br>52  | 91<br>23     | 83<br>46    |               | 95<br>0.76<br>71   | 126<br>-1.10<br>65 | 106<br>15<br>36                                       | 101<br>12.9<br>65 | 92<br>-3.6<br>56  | 91<br>20<br>52        |             | 96<br>16.3<br>54  | 99<br>67<br>40  |                  | 112<br>17.8<br>43 | 85<br>4.2<br>61    | 112<br>-6.6<br>34 | 97<br>13.2<br>56  | 120<br>13<br>43 | 108<br>21<br>42 |                   |                   |                   |
| MS 210096<br>93249654<br>MS210096      | 2            | WO 170908<br>MS 170231   | 97<br>70     | 96<br>65         | 101<br>55 | 95<br>35  | 114<br>49   | 101<br>51 | 105<br>20    | 98<br>45    | 96<br>19      | 92<br>0.96<br>72   | 113<br>-0.57<br>65 | 103<br>10<br>35                                       | 96<br>9.7<br>65   | 101<br>-1.0<br>55 | 94<br>28<br>52        |             | 98<br>17.8<br>48  | 105<br>92<br>28 | 100<br>-39<br>11 | 100<br>11.3<br>32 | 127<br>-28.3<br>57 | 91<br>-2.3<br>33  | 117<br>25.4<br>56 | 95<br>-2<br>31  | 97<br>10<br>30  | 100<br>0.84<br>20 | 89<br>-0.51<br>18 | 84<br>-0.63<br>17 |
| RLR 210037<br>92510049<br>RLR 210037   | 2            | RLR 170031<br>BOS 155237 | 110<br>87    | 120<br>87        | 92<br>85  | 118<br>83 | 95<br>83    | 121<br>78 | 82<br>83     | 111<br>79   | 91<br>82      | 107<br>-0.25<br>87 | 105<br>-0.25<br>85 | 85<br>-10<br>83                                       | 120<br>23.6<br>87 | 92<br>-3.8<br>85  | 121<br>91<br>85       |             | 113<br>29.3<br>86 | 92<br>41<br>83  | 98<br>-36<br>82  | 117<br>20.7<br>84 | 109<br>-14.8<br>83 | 66<br>2.7<br>81   | 115<br>24.1<br>84 | 81<br>-10<br>84 | 96<br>9<br>84   | 93<br>0.17<br>83  | 73<br>-1.50<br>82 | 93<br>-0.08<br>82 |
| MS 220090<br>94846276<br>MS220090      | 3            | WO 170908<br>MS 180188   | 104<br>66    | 94<br>66         | 107<br>51 | 98<br>32  | 119<br>46   | 112<br>49 |              |             | 98<br>19      | 101<br>0.24<br>69  | 106<br>-0.28<br>57 | 100<br>7<br>32                                        | 94<br>8.9<br>66   | 107<br>0.6<br>51  | 98<br>38<br>50        |             | 95<br>15.5<br>51  | 107<br>99<br>25 | 103<br>-42<br>11 | 111<br>17.3<br>29 | 126<br>-28.1<br>59 | 103<br>-4.7<br>29 | 116<br>25.0<br>51 | 101<br>2<br>27  | 101<br>14<br>27 | 100<br>0.90<br>20 | 86<br>-0.73<br>18 | 83<br>-0.68<br>17 |
| MS 220107<br>94847209<br>MS220107      | 2            | MS 190080<br>MS 180278   | 92<br>66     | 108<br>67        | 94<br>59  | 90<br>30  | 122<br>45   | 108<br>50 | 99<br>21     | 103<br>44   | 104<br>12     | 92<br>1.03<br>69   | 102<br>-0.14<br>57 | 109<br>17<br>30                                       | 108<br>16.7<br>67 | 94<br>-3.0<br>59  | 98<br>38<br>52        |             | 106<br>23.6<br>49 | 103<br>83<br>29 | 97<br>-36<br>11  | 110<br>16.8<br>31 | 129<br>-30.0<br>56 | 118<br>-7.7<br>29 | 107<br>19.2<br>51 | 92<br>-3<br>31  | 102<br>16<br>31 | 106<br>1.43<br>12 | 106<br>0.48<br>11 | 96<br>0.07<br>11  |
| MS 220147<br>98358260<br>MS220147      | 4            | MS 190080<br>MS 180310   | 102<br>69    | 112<br>68        | 80<br>60  | 91<br>30  | 119<br>46   | 107<br>51 | 99<br>22     | 102<br>45   | 102<br>12     | 98<br>0.49<br>71   | 109<br>-0.41<br>61 | 109<br>18<br>30                                       | 112<br>18.9<br>68 | 81<br>-6.9<br>60  | 91<br>21<br>53        |             | 111<br>27.5<br>50 | 104<br>86<br>32 | 100<br>-40<br>11 | 111<br>17.3<br>33 | 111<br>-16.2<br>57 | 126<br>-9.3<br>29 | 109<br>20.2<br>51 | 87<br>-6<br>34  | 98<br>11<br>33  | 103<br>1.16<br>12 | 103<br>0.26<br>11 | 95<br>0.03<br>11  |
| ISHA230016<br>98344690<br>ISHA230016   |              | MS 190205                | 98<br>52     | 93<br>33         | 105<br>32 | 113<br>19 | 90<br>25    | 94<br>30  |              |             |               | 97<br>0.58<br>56   | 102<br>-0.15<br>36 | 89<br>-6<br>19                                        | 93<br>8.0<br>33   | 105<br>0.1<br>32  | 100<br>42<br>28       |             | 91<br>12.1<br>26  | 78<br>-6<br>18  |                  | 90<br>5.2<br>19   | 91<br>-0.7<br>30   | 96<br>-3.4<br>16  | 90<br>8.6<br>29   | 92<br>-3<br>19  | 86<br>0<br>19   |                   |                   |                   |
| ISHA230017<br>6020482086<br>ISHA230017 |              | TG 200062                | 71<br>51     | 107<br>34        | 113<br>29 | 102<br>20 | 87<br>26    | 89<br>30  |              |             | 85<br>6       | 72<br>2.66<br>56   | 96<br>0.09<br>35   | 95<br>2<br>20                                         | 107<br>16.0<br>34 | 113<br>2.1<br>29  | 119<br>86<br>28       |             | 101<br>20.1<br>28 | 89<br>32<br>17  |                  | 88<br>4.4<br>19   | 99<br>-6.8<br>27   | 97<br>-3.4<br>19  | 78<br>1.2<br>31   | 98<br>0<br>19   | 91<br>5<br>18   | 80<br>-1.08<br>6  | 104<br>0.36<br>6  | 104<br>0.53<br>5  |
| ISHA230018<br>96781844<br>ISHA230018   |              | TG 200200                | 102<br>47    | 84<br>24         | 107<br>14 |           | 78<br>15    |           |              |             |               | 104<br>-0.01<br>53 | 92<br>0.26<br>25   |                                                       | 84<br>2.9<br>24   | 107<br>0.4<br>14  |                       |             | 83<br>5.6<br>12   |                 |                  |                   | 91<br>-0.2<br>22   | 89<br>-1.8<br>6   | 72<br>-2.3<br>17  |                 |                 |                   |                   |                   |
| ISHA230022<br>96824628<br>ISHA230022   |              | TG 200250                | 111<br>48    | 85<br>26         | 100<br>19 | 115<br>9  | 83<br>19    | 87<br>23  |              |             |               | 110<br>-0.52<br>54 | 97<br>0.08<br>27   | 87<br>-7<br>9                                         | 85<br>3.3<br>26   | 100<br>-1.4<br>19 | 87<br>11<br>18        |             | 82<br>5.2<br>12   | 79<br>-5<br>10  | 86<br>-24<br>5   | 81<br>0.3<br>11   | 99<br>-6.8<br>23   | 92<br>-2.5<br>12  | 74<br>-1.1<br>21  | 93<br>-2<br>11  | 84<br>-2<br>10  |                   |                   |                   |
| ISHA230024<br>96781885<br>ISHA230024   |              | TG 200082                | 103<br>51    | 92<br>33         | 108<br>28 | 106<br>21 | 81<br>26    | 86<br>29  |              |             | 87<br>14      | 105<br>-0.05<br>56 | 92<br>0.26<br>33   | 94<br>0<br>21                                         | 92<br>7.3<br>33   | 108<br>0.9<br>28  | 99<br>39<br>27        |             | 90<br>10.9<br>28  | 88<br>30<br>18  | 94<br>-33<br>13  | 88<br>4.1<br>23   | 97<br>-5.3<br>30   | 87<br>-1.4<br>18  | 76<br>-0.1<br>30  | 108<br>6<br>19  | 97<br>10<br>19  | 82<br>-0.87<br>15 | 110<br>0.68<br>14 | 108<br>0.74<br>14 |

Breeding Values and Accuracies: Cows

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

| Inbreeding in red is high            |              |         |            | Value <80        |               |        |          | Value >120  |           |              |             | Breeding values with an accuracy < 5% are not printed |              |           |           |         |          |                       |             |      |           |               |                  |               |           |        |         |      |       |          |       |
|--------------------------------------|--------------|---------|------------|------------------|---------------|--------|----------|-------------|-----------|--------------|-------------|-------------------------------------------------------|--------------|-----------|-----------|---------|----------|-----------------------|-------------|------|-----------|---------------|------------------|---------------|-----------|--------|---------|------|-------|----------|-------|
| Animal                               |              |         |            | Selection Values |               |        |          |             |           |              |             | Birth                                                 |              | Wean      |           |         |          | Growth                |             |      | Fertility |               |                  |               | Frame     |        | Carcass |      |       |          |       |
| Index<br>EBV<br>Acc                  | % Inbreeding | Sire ID | Dam ID     | Calv. Ease V     | Calf Growth V | Milk V | Maint. V | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value                                         | Birth wt dir | Birth mat | Mature wt | Wean wt | Wean mat | Cow-Calf Ratio (Wean) | Postwean wt | ADG  | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA  | Fat   | Marbling |       |
| ID<br>Number<br>Name                 |              |         |            | 50               | 30            | 25     | 20       | 25          | 28        | 14           | 55          | 32                                                    | 20           | 30        | 25        | 48      | 26       | 17                    | 29          | 22   | 19        | 13            | 22               | 29            | 6         | 8      | -1.12   | 0.27 | 0.06  |          |       |
| ISHA230025<br>96781893<br>ISHA230025 |              | TG      | 200090     | 94               | 93            | 110    | 109      | 80          | 85        |              |             | 83                                                    | 96           | 94        | 92        | 93      | 110      | 103                   |             | 90   | 84        | 91            | 84               | 95            | 86        | 77     | 107     | 94   | 80    | 103      | 96    |
|                                      |              |         |            | 50               | 30            | 25     | 20       | 25          | 28        |              |             | 14                                                    | 0.66         | 0.19      | -2        | 7.9     | 1.5      | 48                    |             | 11.4 | 16        | -29           | 1.9              | -3.4          | -1.2      | 0.5    | 6       | 8    | -1.12 | 0.27     | 0.06  |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 55           | 32        | 20        | 30      | 25       | 25                    |             | 26   | 17        | 13            | 22               | 29            | 17        | 29     | 19      | 18   | 15    | 14       | 13    |
| ISHA230027<br>96781901<br>ISHA230027 |              | TG      | 200070     | 114              | 86            | 99     | 110      | 83          | 85        |              |             | 80                                                    | 114          | 93        | 92        | 86      | 99       | 85                    |             | 84   | 85        |               | 86               | 96            | 93        | 75     | 95      | 87   | 75    | 98       | 94    |
|                                      |              |         |            | 51               | 28            | 26     | 13       | 22          | 26        |              |             | 5                                                     | -0.85        | 0.24      | -2        | 3.9     | -1.8     | 7                     |             | 7.0  | 19        |               | 3.2              | -4.4          | -2.6      | -0.5   | -2      | 1    | -1.62 | -0.01    | -0.06 |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 56           | 33        | 13        | 28      | 26       | 22                    |             | 21   | 13        |               | 14               | 21            | 15        | 30     | 14      | 14   | 5     | 5        | 5     |
| ISHA230030<br>96847959<br>ISHA230030 |              | TG      | 200273     | 103              | 83            | 105    |          | 74          |           |              |             |                                                       | 105          | 93        |           | 83      | 105      |                       |             | 82   |           |               |                  | 81            | 86        | 74     |         |      |       |          |       |
|                                      |              |         |            | 48               | 26            | 19     |          | 16          |           |              |             |                                                       | -0.07        | 0.20      |           | 2.6     | 0.0      |                       |             | 4.8  |           |               |                  | 7.3           | -1.3      | -1.2   |         |      |       |          |       |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 54           | 26        |           | 26      | 19       |                       |             | 8    |           |               |                  | 21            | 8         | 19     |         |      |       |          |       |
| OKT 230515<br>96511282<br>OKT 230515 |              | V8      | 190337     | 99               | 109           | 85     | 103      | 103         | 101       | 94           | 95          | 98                                                    | 95           | 113       | 96        | 109     | 85       | 98                    |             | 112  | 99        | 86            | 99               | 99            | 96        | 112    | 93      | 102  | 101   | 104      | 106   |
|                                      |              | OKT     | 160008     | 64               | 64            | 51     | 34       | 37          | 47        | 20           | 42          | 14                                                    | 0.78         | -0.59     | 2         | 17.6    | -5.7     | 36                    |             | 28.0 | 69        | -24           | 10.4             | -7.0          | -3.3      | 21.9   | -3      | 15   | 0.99  | 0.37     | 0.65  |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 67           | 55        | 34        | 64      | 51       | 50                    |             | 44   | 32        | 6             | 36               | 40            | 23        | 48     | 36      | 35   | 14    | 13       | 12    |
| WO 230497<br>95822656<br>WO230497    |              | WO      | 190347     | 125              | 85            | 98     | 129      | 95          | 109       | 72           | 98          | 76                                                    | 120          | 105       | 70        | 85      | 98       | 93                    |             | 88   | 80        | 78            | 98               | 103           | 85        | 103    | 92      | 87   | 77    | 95       | 89    |
|                                      |              | WO      | 150805     | 64               | 67            | 53     | 39       | 38          | 49        | 23           | 44          | 9                                                     | -1.34        | -0.25     | -27       | 3.3     | -1.9     | 26                    |             | 9.4  | -1        | -15           | 9.9              | -9.6          | -1.0      | 16.4   | -3      | 1    | -1.37 | -0.17    | -0.35 |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 67           | 53        | 39        | 67      | 53       | 53                    |             | 44   | 35        | 8             | 38               | 46            | 21        | 46     | 39      | 38   | 9     | 9        | 8     |
| WO 230897<br>95999439<br>WO230897    |              | WO      | 200195     | 117              | 90            | 87     | 97       | 95          | 85        |              |             |                                                       | 120          | 85        | 102       | 90      | 87       | 76                    |             | 89   | 84        | 83            | 97               | 97            | 89        | 103    | 93      | 87   |       |          |       |
|                                      |              | WO      | 210671     | 53               | 55            | 39     | 20       | 24          | 36        |              |             |                                                       | -1.31        | 0.53      | 10        | 6.5     | -5.1     | -14                   |             | 10.4 | 15        | -21           | 9.4              | -5.2          | -1.8      | 16.9   | -3      | 1    |       |          |       |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 57           | 38        | 20        | 55      | 39       | 38                    |             | 35   | 12        | 6             | 13               | 22            | 13        | 36     | 13      | 13   |       |          |       |
| BOS 244127<br>97724165<br>BOS244127  |              | 3       | BOS 211266 | 88               | 115           | 99     | 88       | 122         | 114       |              |             | 107                                                   | 87           | 106       | 112       | 115     | 99       | 108                   |             | 115  | 108       | 105           | 106              | 113           | 117       | 121    | 101     | 108  | 109   | 108      | 104   |
|                                      |              |         | BOS 211378 | 38               | 56            | 44     | 25       | 38          | 38        |              |             | 17                                                    | 1.39         | -0.29     | 21        | 20.9    | -1.8     | 60                    |             | 30.8 | 102       | -45           | 14.7             | -17.6         | -7.5      | 28.0   | 2       | 21   | 1.70  | 0.55     | 0.54  |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 39           | 34        | 25        | 56      | 44       | 42                    |             | 41   | 25        | 11            | 27               | 43            | 28        | 43     | 28      | 27   | 18    | 16       | 16    |
| BOS 244551<br>97862304<br>BOS244551  |              | 5       | BOS 200450 | 81               | 113           | 97     | 82       | 94          | 84        |              |             | 105                                                   | 84           | 96        | 120       | 113     | 97       | 101                   |             | 113  | 107       | 100           | 89               | 92            | 85        | 111    | 104     | 111  | 105   | 98       | 104   |
|                                      |              |         | BOS 199174 | 35               | 50            | 45     | 26       | 38          | 36        |              |             | 16                                                    | 1.64         | 0.12      | 30        | 19.7    | -2.1     | 45                    |             | 28.9 | 98        | -40           | 4.9              | -1.0          | -1.0      | 21.7   | 4       | 24   | 1.36  | -0.03    | 0.54  |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 36           | 33        | 50        | 45      | 40       |                       | 38          | 25   | 8         | 26            | 42               | 28            | 43        | 26     | 25      | 16   | 15    | 14       |       |
| BOS 244562<br>98211436<br>BOS244562  |              | 5       | BOS 200450 | 91               | 111           | 99     | 88       | 107         | 101       | 104          | 98          | 107                                                   | 87           | 113       | 111       | 111     | 99       | 105                   |             | 110  | 111       | 108           | 95               | 103           | 102       | 112    | 100     | 110  | 108   | 100      | 102   |
|                                      |              |         | BOS 199348 | 36               | 50            | 45     | 27       | 39          | 37        | 20           | 34          | 19                                                    | 1.41         | -0.58     | 20        | 18.7    | -1.6     | 53                    |             | 26.9 | 113       | -48           | 8.1              | -9.4          | -4.6      | 22.1   | 1       | 23   | 1.62  | 0.12     | 0.40  |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 37           | 33        | 27        | 50      | 45       | 41                    |             | 39   | 28        | 12            | 29               | 42            | 31        | 43     | 29      | 29   | 20    | 18       | 18    |
| ISHA240010<br>6020480056<br>240010   |              |         | BOS 177663 | 98               | 108           | 95     | 94       | 98          | 96        | 97           | 92          | 95                                                    | 95           | 107       | 104       | 108     | 95       | 102                   |             | 109  | 100       |               | 99               | 86            | 97        | 111    | 83      | 96   | 114   | 53       | 74    |
|                                      |              |         | MS 190205  | 58               | 58            | 51     | 37       | 40          | 45        | 26           | 41          | 31                                                    | 0.71         | -0.34     | 12        | 17.0    | -2.7     | 46                    |             | 25.9 | 72        |               | 10.6             | 3.2           | -3.4      | 21.6   | -9      | 9    | 2.23  | -2.63    | -1.17 |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 59           | 53        | 37        | 58      | 51       | 49                    |             | 49   | 46        |               | 49               | 48            | 23        | 50     | 49      | 48   | 32    | 30       | 29    |
| ISHA240011<br>6020480049<br>240011   |              | 2       | MS 190080  | 97               | 111           | 92     | 92       | 110         | 104       | 98           | 99          | 103                                                   | 93           | 110       | 107       | 111     | 92       | 100                   |             | 110  | 102       | 97            | 109              | 107           | 115       | 102    | 91      | 102  | 104   | 109      | 102   |
|                                      |              |         | MS 190399  | 58               | 58            | 50     | 30       | 39          | 44        | 21           | 39          | 12                                                    | 0.88         | -0.44     | 16        | 18.3    | -3.6     | 42                    |             | 26.6 | 80        | -35           | 16.3             | -13.3         | -7.1      | 16.2   | -4      | 15   | 1.27  | 0.62     | 0.39  |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 60           | 52        | 30        | 58      | 50       | 46                    |             | 44   | 29        | 11            | 31               | 43            | 27        | 48     | 31      | 31   | 12    | 11       | 11    |
| ISHA240012<br>6020481310<br>240012   |              | 5       | WO 170908  | 87               | 100           | 106    | 95       | 96          | 90        | 105          | 87          | 100                                                   | 87           | 103       | 103       | 100     | 106      | 102                   |             | 103  | 107       | 102           | 104              | 103           | 83        | 107    | 96      | 101  | 103   | 91       | 88    |
|                                      |              |         | MS 190029  | 57               | 58            | 51     | 34       | 44          | 45        | 20           | 40          | 20                                                    | 1.38         | -0.18     | 10        | 12.2    | 0.2      | 47                    |             | 21.3 | 97        | -42           | 13.4             | -10.0         | -0.6      | 19.3   | -1      | 14   | 1.18  | -0.39    | -0.40 |
|                                      |              |         |            |                  |               |        |          |             |           |              |             |                                                       | 59           | 51        | 34        | 58      | 51       | 48                    |             | 47   | 26        | 13            | 30               | 49            | 32        | 50     | 29      | 28   | 21    | 19       | 19    |

Breeding Values and Accuracies: Cows

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

| Inbreeding in red is high |              |                   |  | Value <80        |               | Value >120 |          | Breeding values with an accuracy < 5% are not printed |           |              |             |               |              |           |           |         |          |                       |             |     |           |               |                  |               |           |        |         |     |       |          |       |
|---------------------------|--------------|-------------------|--|------------------|---------------|------------|----------|-------------------------------------------------------|-----------|--------------|-------------|---------------|--------------|-----------|-----------|---------|----------|-----------------------|-------------|-----|-----------|---------------|------------------|---------------|-----------|--------|---------|-----|-------|----------|-------|
| Animal                    |              |                   |  | Selection Values |               |            |          |                                                       |           |              |             | Birth         |              | Wean      |           |         |          | Growth                |             |     | Fertility |               |                  |               | Frame     |        | Carcass |     |       |          |       |
| Index<br>EBV<br>Acc       | % Inbreeding | Sire ID<br>Dam ID |  | Calv. Ease V     | Calf Growth V | Milk V     | Maint. V | Fertility V                                           | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt | Wean wt | Wean mat | Cow-Calf Ratio (Wean) | Postwean wt | ADG | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA | Fat   | Marbling |       |
| ID<br>Number<br>Name      |              |                   |  | Calv. Ease V     | Calf Growth V | Milk V     | Maint. V | Fertility V                                           | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt | Wean wt | Wean mat | Cow-Calf Ratio (Wean) | Postwean wt | ADG | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA | Fat   | Marbling |       |
| MS 240022                 |              | OBS 180168        |  | 113              | 93            | 81         | 117      | 92                                                    | 91        | 84           | 84          | 83            | 109          | 108       | 86        | 93      | 81       | 79                    | 89          | 86  |           |               | 82               | 89            | 95        | 97     | 85      | 82  | 80    | 93       | 97    |
| 97084479                  |              | MS 210026         |  | 63               | 55            | 46         | 25       | 38                                                    | 42        | 24           | 38          | 5             | -0.42        | -0.36     | -9        | 7.9     | -6.8     | -7                    | 10.6        | 23  |           |               | 1.1              | 0.9           | -3.1      | 13.0   | -8      | -4  | -1.09 | -0.28    | 0.12  |
| MS240022                  |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 67           | 51        | 25        | 55      | 46       | 42                    | 50          | 43  |           |               | 45               | 49            | 22        | 44     | 41      | 40  | 5     | 5        | 5     |
| MS 240081                 |              | MS 210062         |  | 94               | 92            | 113        | 107      | 113                                                   | 110       |              |             | 82            | 89           | 122       | 93        | 92      | 113      | 104                   | 89          | 84  | 81        |               | 96               | 109           | 116       | 106    | 99      | 92  | 83    | 94       | 83    |
| 98440142                  | 1            | MS 200231         |  | 60               | 62            | 44         | 21       | 34                                                    | 42        |              |             | 6             | 1.28         | -0.91     | -1        | 7.6     | 2.4      | 52                    | 10.5        | 13  | -19       |               | 8.8              | -14.3         | -7.2      | 18.6   | 1       | 6   | -0.81 | -0.27    | -0.66 |
| MS240081                  |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 64           | 44        | 21        | 62      | 44       | 42                    | 38          | 22  | 6         |               | 24               | 38            | 21        | 43     | 24      | 23  | 7     | 6        | 6     |
| MS 240097                 |              | MS 210062         |  | 93               | 99            | 108        | 95       | 102                                                   | 97        |              |             |               | 89           | 116       | 102       | 99      | 108      | 103                   | 93          | 94  |           |               | 103              | 91            | 106       | 107    | 113     | 103 |       |          |       |
| 98219694                  |              | MS 200188         |  | 59               | 62            | 45         | 17       | 33                                                    | 41        |              |             |               | 1.28         | -0.68     | 10        | 11.5    | 1.0      | 49                    | 13.9        | 50  |           |               | 12.9             | -0.3          | -5.2      | 19.2   | 9       | 16  |       |          |       |
| MS240097                  |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 64           | 43        | 17        | 62      | 45       | 41                    | 42          | 20  |           |               | 22               | 37            | 19        | 42     | 22      | 21  |       |          |       |
| MS 240276                 | 7            | MS 210062         |  | 100              | 88            | 109        | 117      | 108                                                   | 109       |              |             |               | 95           | 121       | 85        | 88      | 109      | 100                   | 86          | 74  |           |               | 91               | 109           | 100       | 112    | 91      | 80  | 73    |          |       |
| 982221229                 |              | MS 170380         |  | 60               | 63            | 47         | 26       | 35                                                    | 44        |              |             |               | 0.78         | -0.87     | -11       | 5.1     | 1.1      | 41                    | 8.6         | -22 |           |               | 6.2              | -14.5         | -4.2      | 22.0   | -4      | -5  | -1.84 |          |       |
| MS240276                  |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 64           | 47        | 26        | 63      | 47       | 45                    | 46          | 27  |           |               | 29               | 34            | 24        | 47     | 29      | 28  | 5     |          |       |
| SCH 241004                | 2            | SCH 170105        |  | 109              | 107           | 87         | 84       | 114                                                   | 103       | 106          | 99          | 105           | 106          | 108       | 118       | 107     | 87       | 89                    | 112         | 112 | 102       |               | 91               | 97            | 126       | 109    | 99      | 108 | 109   | 98       | 94    |
| 97086268                  |              | SCH 180388        |  | 60               | 62            | 57         | 56       | 45                                                    | 52        | 32           | 48          | 6             | -0.13        | -0.37     | 27        | 16.2    | -5.0     | 15                    | 28.4        | 115 | -41       |               | 5.9              | -5.1          | -9.3      | 20.3   | 1       | 21  | 1.70  | 0.01     | -0.02 |
| SCH241004                 |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 62           | 55        | 56        | 62      | 57       | 58                    | 43          | 56  | 6         |               | 58               | 53            | 31        | 52     | 58      | 58  | 7     | 6        | 6     |
| ISHA250011                | 2            | MS 190080         |  | 97               | 111           | 92         | 92       | 110                                                   | 104       | 98           | 99          | 103           | 93           | 110       | 107       | 111     | 92       | 100                   | 110         | 102 | 97        |               | 109              | 107           | 115       | 102    | 91      | 102 | 104   | 109      | 102   |
| 6020481450                |              | MS 190399         |  | 58               | 58            | 50         | 30       | 39                                                    | 44        | 21           | 39          | 12            | 0.88         | -0.44     | 16        | 18.3    | -3.6     | 42                    | 26.6        | 80  | -35       |               | 16.3             | -13.3         | -7.1      | 16.2   | -4      | 15  | 1.27  | 0.62     | 0.39  |
| 250011                    |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 60           | 52        | 30        | 58      | 50       | 46                    | 44          | 29  | 11        |               | 31               | 43            | 27        | 48     | 31      | 31  | 12    | 11       | 11    |
| ISHA250012                | 2            | MS 200305         |  | 111              | 89            | 111        | 108      | 100                                                   | 106       |              |             | 82            | 109          | 100       | 93        | 89      | 111      | 99                    | 89          | 82  | 75        |               | 94               | 95            | 98        | 108    | 94      | 91  | 85    | 97       | 83    |
| 6020481468                |              | MS 190205         |  | 47               | 46            | 41         | 22       | 32                                                    | 35        |              |             | 8             | -0.45        | -0.07     | -1        | 5.9     | 1.7      | 40                    | 10.8        | 6   | -12       |               | 7.9              | -3.6          | -3.7      | 19.8   | -2      | 5   | -0.63 | -0.04    | -0.66 |
| 250012                    |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 49           | 42        | 22        | 46      | 41       | 36                    | 34          | 20  | 6         |               | 21               | 38            | 20        | 39     | 22      | 21  | 8     | 7        | 7     |
| ISHA250013                | 2            | MS 200305         |  | 111              | 89            | 111        | 108      | 100                                                   | 106       |              |             | 82            | 109          | 100       | 93        | 89      | 111      | 99                    | 89          | 82  | 75        |               | 94               | 95            | 98        | 108    | 94      | 91  | 85    | 97       | 83    |
| 6020481492                |              | MS 190205         |  | 47               | 46            | 41         | 22       | 32                                                    | 35        |              |             | 8             | -0.45        | -0.07     | -1        | 5.9     | 1.7      | 40                    | 10.8        | 6   | -12       |               | 7.9              | -3.6          | -3.7      | 19.8   | -2      | 5   | -0.63 | -0.04    | -0.66 |
| 240013                    |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 49           | 42        | 22        | 46      | 41       | 36                    | 34          | 20  | 6         |               | 21               | 38            | 20        | 39     | 22      | 21  | 8     | 7        | 7     |
| ISHA250015                | 8            | MS 200305         |  | 97               | 95            | 114        | 101      | 87                                                    | 91        |              |             | 92            | 97           | 99        | 97        | 95      | 114      | 106                   | 96          | 91  | 89        |               | 95               | 88            | 84        | 98     | 97      | 99  | 94    | 96       | 90    |
| 6020481484                |              | MS 190029         |  | 46               | 46            | 41         | 19       | 33                                                    | 35        |              |             | 10            | 0.55         | 0.00      | 4         | 9.2     | 2.6      | 57                    | 15.6        | 39  | -27       |               | 8.4              | 1.5           | -0.9      | 13.8   | 0       | 12  | 0.27  | -0.11    | -0.25 |
| 250015                    |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 48           | 39        | 19        | 46      | 41       | 35                    | 30          | 16  | 10        |               | 17               | 38            | 21        | 39     | 17      | 16  | 11    | 10       | 10    |
| ISHA250017                | 1            | WO 181048         |  | 90               | 100           | 122        | 102      | 105                                                   | 111       | 90           | 103         | 92            | 88           | 109       | 95        | 100     | 122      | 119                   | 97          | 92  | 84        |               | 101              | 111           | 99        | 104    | 89      | 93  | 96    | 105      | 94    |
| 6020482342                |              | MS 190399         |  | 58               | 58            | 50         | 31       | 38                                                    | 44        | 22           | 40          | 28            | 1.34         | -0.40     | 2         | 11.8    | 4.8      | 86                    | 16.6        | 42  | -22       |               | 11.9             | -16.2         | -3.9      | 17.0   | -5      | 7   | 0.46  | 0.42     | -0.03 |
| 250017                    |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 60           | 50        | 31        | 58      | 50       | 46                    | 49          | 35  | 6         |               | 39               | 45            | 23        | 46     | 39      | 38  | 29    | 26       | 26    |
| ISHA250025                |              | BOS 177663        |  | 98               | 102           | 98         | 93       | 82                                                    | 81        | 98           | 78          | 98            | 95           | 109       | 105       | 102     | 98       | 97                    | 103         | 104 |           |               | 95               | 73            | 89        | 96     | 84      | 98  | 113   | 50       | 80    |
| 6020313372                |              | MS 210026         |  | 60               | 54            | 44         | 33       | 37                                                    | 42        | 23           | 38          | 30            | 0.72         | -0.42     | 13        | 13.5    | -2.0     | 35                    | 21.5        | 88  |           |               | 8.3              | 13.4          | -1.8      | 12.2   | -8      | 12  | 2.13  | -2.83    | -0.83 |
| 250025                    |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 64           | 48        | 33        | 54      | 44       | 44                    | 45          | 43  |           |               | 46               | 46            | 19        | 45     | 46      | 45  | 32    | 29       | 29    |
| ISHA250028                |              | BOS 177663        |  | 99               | 108           | 95         | 94       | 98                                                    | 97        | 97           | 92          | 95            | 97           | 107       | 104       | 108     | 95       | 101                   | 108         | 100 |           |               | 99               | 86            | 97        | 111    | 83      | 96  | 114   | 53       | 74    |
| 6020481542                |              | MS 190205         |  | 63               | 58            | 51         | 37       | 40                                                    | 46        | 26           | 42          | 31            | 0.59         | -0.31     | 12        | 16.7    | -2.8     | 44                    | 25.5        | 72  |           |               | 10.6             | 3.2           | -3.4      | 21.6   | -9      | 9   | 2.23  | -2.63    | -1.17 |
| 250028                    |              |                   |  |                  |               |            |          |                                                       |           |              |             |               | 66           | 54        | 37        | 58      | 51       | 49                    | 49          | 46  |           |               | 49               | 48            | 23        | 50     | 49      | 48  | 32    | 30       | 29    |

Breeding Values and Accuracies: Cows

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

| Inbreeding in red is high |              |                   |                  |               |        |          |             |           |              | Value <80   |               | Value >120   |           | Breeding values with an accuracy < 5% are not printed |         |          |                          |             |     |           |               |                  |               |           |        |         |       |       |          |
|---------------------------|--------------|-------------------|------------------|---------------|--------|----------|-------------|-----------|--------------|-------------|---------------|--------------|-----------|-------------------------------------------------------|---------|----------|--------------------------|-------------|-----|-----------|---------------|------------------|---------------|-----------|--------|---------|-------|-------|----------|
| Animal                    |              |                   | Selection Values |               |        |          |             |           |              |             | Birth         |              | Wean      |                                                       |         |          | Growth                   |             |     | Fertility |               |                  |               | Frame     |        | Carcass |       |       |          |
| Index<br>EBV<br>Acc       | % Inbreeding | Sire ID<br>Dam ID | Calv. Ease V     | Calv Growth V | Milk V | Maint. V | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt                                             | Wean wt | Wean mat | Cow-Calf<br>Ratio (Wean) | Postwean wt | ADG | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA   | Fat   | Marbling |
| ID<br>Number<br>Name      |              |                   | Calv. Ease V     | Calv Growth V | Milk V | Maint. V | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt                                             | Wean wt | Wean mat | Cow-Calf<br>Ratio (Wean) | Postwean wt | ADG | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA   | Fat   | Marbling |
| ISHA250032                | 3            | WO 181048         | 93               | 94            | 117    | 99       | 108         | 105       | 100          | 101         | 96            | 94           | 100       | 98                                                    | 94      | 117      | 107                      | 94          | 100 | 94        | 100           | 123              | 91            | 110       | 85     | 92      | 101   | 97    | 88       |
| 6020481526                |              | MS 210096         | 64               | 57            | 47     | 30       | 37          | 44        | 22           | 40          | 30            | 0.87         | -0.07     | 5                                                     | 8.8     | 3.3      | 59                       | 14.4        | 73  | -33       | 11.1          | -25.1            | -2.2          | 20.7      | -7     | 6       | 0.99  | -0.09 | -0.37    |
| 250032                    |              |                   |                  |               |        |          |             |           |              |             |               | 68           | 50        | 30                                                    | 57      | 47       | 45                       | 48          | 33  | 7         | 37            | 43               | 23            | 46        | 37     | 36      | 31    | 28    | 27       |
| ISHA250037                | 1            | MS 200305         | 105              | 96            | 107    | 97       | 96          | 97        | 100          | 92          | 96            | 101          | 110       | 100                                                   | 96      | 107      | 99                       | 98          | 105 | 104       | 91            | 84               | 102           | 104       | 94     | 95      | 99    | 93    | 91       |
| 6020481385                |              | SCH 180388        | 49               | 50            | 44     | 38       | 35          | 40        | 21           | 36          | 8             | 0.28         | -0.45     | 8                                                     | 9.9     | 0.4      | 41                       | 17.6        | 89  | -43       | 5.8           | 5.0              | -4.6          | 17.4      | -2     | 9       | 0.76  | -0.29 | -0.22    |
| 250037                    |              |                   |                  |               |        |          |             |           |              |             |               | 51           | 42        | 38                                                    | 50      | 44       | 44                       | 36          | 34  | 7         | 36            | 39               | 25            | 41        | 36     | 35      | 8     | 8     | 8        |
| ISHA250047                | 3            | MS 190080         | 91               | 116           | 84     | 88       | 108         | 97        | 114          | 96          | 113           | 89           | 109       | 113                                                   | 116     | 84       | 96                       | 117         | 121 | 118       | 102           | 95               | 118           | 105       | 86     | 100     | 115   | 101   | 102      |
| 6020481393                |              | SCH 180388        | 60               | 61            | 53     | 43       | 41          | 48        | 27           | 44          | 12            | 1.23         | -0.40     | 22                                                    | 21.2    | -6.0     | 33                       | 32.2        | 147 | -59       | 12.2          | -3.6             | -7.7          | 18.0      | -7     | 14      | 2.34  | 0.17  | 0.40     |
| 250047                    |              |                   |                  |               |        |          |             |           |              |             |               | 62           | 53        | 43                                                    | 61      | 53       | 52                       | 45          | 40  | 12        | 42            | 44               | 30            | 49        | 42     | 42      | 13    | 12    | 12       |
| ISHA250049                | 1            | BOS 188650        | 108              | 107           | 79     | 105      | 101         | 99        | 112          | 98          | 107           | 103          | 125       | 95                                                    | 107     | 79       | 90                       | 107         | 118 | 116       | 104           | 82               | 108           | 110       | 95     | 100     | 111   | 95    | 99       |
| 6020482300                |              | SCH 180388        | 52               | 61            | 52     | 42       | 43          | 46        | 27           | 42          | 10            | 0.09         | -1.03     | 1                                                     | 15.9    | -7.2     | 19                       | 24.8        | 138 | -57       | 13.4          | 6.8              | -5.7          | 21.3      | -2     | 13      | 1.94  | -0.16 | 0.26     |
| 250049                    |              |                   |                  |               |        |          |             |           |              |             |               | 54           | 45        | 42                                                    | 61      | 52       | 52                       | 50          | 44  | 7         | 48            | 51               | 28            | 49        | 48     | 47      | 11    | 10    | 10       |
| ISHA250050                |              | MS 190080         | 76               | 124           | 95     | 89       | 104         | 101       | 107          | 98          | 115           | 80           | 94        | 110                                                   | 124     | 95       | 115                      | 120         | 114 | 109       | 118           | 90               | 113           | 106       | 91     | 108     | 112   | 115   | 113      |
| 6020481328                |              | OKT 140038        | 61               | 61            | 55     | 35       | 40          | 47        | 20           | 42          | 14            | 1.98         | 0.17      | 19                                                    | 25.9    | -2.7     | 77                       | 34.2        | 123 | -48       | 21.4          | 0.1              | -6.7          | 18.6      | -4     | 21      | 2.03  | 0.98  | 1.04     |
| 250050                    |              |                   |                  |               |        |          |             |           |              |             |               | 63           | 56        | 35                                                    | 61      | 55       | 50                       | 48          | 28  | 11        | 30            | 44               | 26            | 50        | 30     | 30      | 15    | 14    | 14       |
| ISHA250052                |              | BOS 199340        | 99               | 96            | 101    | 108      | 85          | 89        |              |             | 87            | 97           | 107       | 93                                                    | 96      | 101      | 98                       | 94          | 91  | 92        | 81            | 92               | 87            | 88        | 92     | 95      | 84    | 90    | 99       |
| 6020277585                |              |                   | 23               | 34            | 32     | 19       | 27          | 25        |              |             | 10            | 0.59         | -0.31     | -1                                                    | 9.8     | -1.1     | 38                       | 14.5        | 38  | -30       | 0.4           | -1.3             | -1.5          | 7.5       | -3     | 8       | -0.70 | -0.46 | 0.22     |
| 250052                    |              |                   |                  |               |        |          |             |           |              |             |               | 23           | 22        | 19                                                    | 34      | 32       | 28                       | 26          | 19  | 6         | 21            | 32               | 20            | 30        | 21     | 20      | 10    | 10    | 10       |
| ISHA250053                | 2            | MS 190080         | 106              | 107           | 90     | 92       | 110         | 104       | 98           | 99          | 103           | 104          | 106       | 107                                                   | 107     | 90       | 94                       | 106         | 102 | 97        | 109           | 107              | 115           | 102       | 91     | 102     | 104   | 109   | 102      |
| 6020239130                |              | MS 190399         | 65               | 58            | 50     | 30       | 39          | 45        | 21           | 40          | 12            | 0.04         | -0.29     | 16                                                    | 15.9    | -4.2     | 28                       | 23.7        | 80  | -35       | 16.3          | -13.3            | -7.1          | 16.2      | -4     | 15      | 1.27  | 0.62  | 0.39     |
| 250053                    |              |                   |                  |               |        |          |             |           |              |             |               | 68           | 54        | 30                                                    | 58      | 50       | 46                       | 44          | 29  | 11        | 31            | 43               | 27            | 48        | 31     | 31      | 12    | 11    | 11       |
| ISHA250069                |              | BOS 188650        | 111              | 115           | 84     | 110      | 108         | 119       | 104          | 114         | 109           | 106          | 126       | 92                                                    | 115     | 84       | 105                      | 111         | 110 | 110       | 114           | 102              | 108           | 110       | 106    | 107     | 111   | 101   | 106      |
| 6020482318                |              | SCH 150035        | 51               | 60            | 54     | 42       | 42          | 46        | 26           | 42          | 10            | -0.16        | -1.08     | -2                                                    | 20.8    | -6.0     | 53                       | 27.8        | 109 | -50       | 19.3          | -8.8             | -5.7          | 20.7      | 5      | 20      | 1.96  | 0.16  | 0.65     |
| 250069                    |              |                   |                  |               |        |          |             |           |              |             |               | 53           | 46        | 42                                                    | 60      | 54       | 52                       | 48          | 41  | 6         | 46            | 51               | 27            | 49        | 47     | 45      | 10    | 9     | 9        |
| ISHA250071                | 1            | MS 200305         | 105              | 96            | 107    | 97       | 96          | 97        | 100          | 92          | 96            | 101          | 110       | 100                                                   | 96      | 107      | 99                       | 98          | 105 | 104       | 91            | 84               | 102           | 104       | 94     | 95      | 99    | 93    | 91       |
| 6020481419                |              | SCH 180388        | 49               | 50            | 44     | 38       | 35          | 40        | 21           | 36          | 8             | 0.28         | -0.45     | 8                                                     | 9.9     | 0.4      | 41                       | 17.6        | 89  | -43       | 5.8           | 5.0              | -4.6          | 17.4      | -2     | 9       | 0.76  | -0.29 | -0.22    |
| 250071                    |              |                   |                  |               |        |          |             |           |              |             |               | 51           | 42        | 38                                                    | 50      | 44       | 44                       | 36          | 34  | 7         | 36            | 39               | 25            | 41        | 36     | 35      | 8     | 8     | 8        |
| ISHA250072                |              | BOS 177663        | 96               | 113           | 91     | 94       | 93          | 93        | 101          | 89          | 101           | 94           | 108       | 105                                                   | 113     | 91       | 102                      | 114         | 107 |           | 101           | 74               | 99            | 108       | 86     | 100     | 120   | 52    | 86       |
| 6020482367                |              | OKT 160008        | 60               | 60            | 56     | 41       | 41          | 48        | 26           | 44          | 32            | 0.85         | -0.38     | 13                                                    | 19.8    | -4.1     | 48                       | 29.8        | 97  |           | 11.8          | 12.9             | -3.9          | 19.5      | -7     | 13      | 2.79  | -2.70 | -0.51    |
| 250072                    |              |                   |                  |               |        |          |             |           |              |             |               | 61           | 55        | 41                                                    | 60      | 56       | 52                       | 52          | 45  |           | 48            | 49               | 23            | 52        | 49     | 48      | 34    | 31    | 30       |
| ISHA250074                |              | WO 181048         | 89               | 113           | 118    | 99       | 110         | 121       | 98           | 115         | 104           | 87           | 109       | 98                                                    | 113     | 118      | 129                      | 108         | 102 | 100       | 105           | 119              | 102           | 105       | 95     | 98      | 107   | 103   | 101      |
| 6020482383                |              | SCH 150035        | 59               | 60            | 55     | 44       | 39          | 48        | 26           | 44          | 28            | 1.45         | -0.42     | 5                                                     | 19.7    | 3.6      | 109                      | 25.2        | 81  | -39       | 13.7          | -22.1            | -4.4          | 18.2      | -1     | 12      | 1.56  | 0.30  | 0.36     |
| 250074                    |              |                   |                  |               |        |          |             |           |              |             |               | 61           | 51        | 44                                                    | 60      | 55       | 53                       | 49          | 41  | 6         | 46            | 45               | 25            | 48        | 47     | 45      | 29    | 26    | 26       |
| ISHA250079                |              | MS 190080         | 76               | 124           | 95     | 89       | 104         | 101       | 107          | 98          | 115           | 80           | 94        | 110                                                   | 124     | 95       | 115                      | 120         | 114 | 109       | 118           | 90               | 113           | 106       | 91     | 108     | 112   | 115   | 113      |
| 6020481351                |              | OKT 140038        | 61               | 61            | 55     | 35       | 40          | 47        | 20           | 42          | 14            | 1.98         | 0.17      | 19                                                    | 25.9    | -2.7     | 77                       | 34.2        | 123 | -48       | 21.4          | 0.1              | -6.7          | 18.6      | -4     | 21      | 2.03  | 0.98  | 1.04     |
| 250079                    |              |                   |                  |               |        |          |             |           |              |             |               | 63           | 56        | 35                                                    | 61      | 55       | 50                       | 48          | 28  | 11        | 30            | 44               | 26            | 50        | 30     | 30      | 15    | 14    | 14       |

# Breeding Values and Accuracies: Cows

Green: >120    High  
White: 80-120 Average  
Orange: <80    Low

| Inbreeding in red is high |              |            |        | Value <80        |               | Value >120 |          | Breeding values with an accuracy < 5% are not printed |           |              |             |               |              |           |           |         |          |                       |             |     |           |               |                  |               |           |        |         |       |       |          |
|---------------------------|--------------|------------|--------|------------------|---------------|------------|----------|-------------------------------------------------------|-----------|--------------|-------------|---------------|--------------|-----------|-----------|---------|----------|-----------------------|-------------|-----|-----------|---------------|------------------|---------------|-----------|--------|---------|-------|-------|----------|
| Animal                    |              |            |        | Selection Values |               |            |          |                                                       |           |              |             | Birth         |              | Wean      |           |         |          | Growth                |             |     | Fertility |               |                  |               | Frame     |        | Carcass |       |       |          |
| Index<br>EBV<br>Acc       | % Inbreeding | Sire ID    | Dam ID | Calv. Ease V     | Calf Growth V | Milk V     | Maint. V | Fertility V                                           | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir | Birth mat | Mature wt | Wean wt | Wean mat | Cow-Calf Ratio (Wean) | Postwean wt | ADG | FCR       | Scrotal Circ. | Heifer Fertility | Cow Fertility | Longevity | Height | Length  | EMA   | Fat   | Marbling |
| ID<br>Number<br>Name      |              |            |        |                  |               |            |          |                                                       |           |              |             |               |              |           |           |         |          |                       |             |     |           |               |                  |               |           |        |         |       |       |          |
| ISHA250080                |              | BOS 188650 |        | 111              | 115           | 84         | 110      | 108                                                   | 119       | 104          | 114         | 109           | 106          | 126       | 92        | 115     | 84       | 105                   | 111         | 110 | 110       | 114           | 102              | 108           | 110       | 106    | 107     | 111   | 101   | 106      |
| 6020482292                |              | SCH 150035 |        | 51               | 60            | 54         | 42       | 42                                                    | 46        | 26           | 42          | 10            | -0.16        | -1.08     | -2        | 20.8    | -6.0     | 53                    | 27.8        | 109 | -50       | 19.3          | -8.8             | -5.7          | 20.7      | 5      | 20      | 1.96  | 0.16  | 0.65     |
| 250080                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 53           | 46        | 42        | 60      | 54       | 52                    | 48          | 41  | 6         | 46            | 51               | 27            | 49        | 47     | 45      | 10    | 9     | 9        |
| ISHA250084                |              | BOS 177663 |        | 95               | 124           | 95         | 90       | 101                                                   | 108       | 108          | 105         | 111           | 90           | 118       | 109       | 124     | 95       | 115                   | 122         | 115 |           | 106           | 95               | 101           | 106       | 93     | 106     | 128   | 54    | 89       |
| 6020481427                |              | SCH 150035 |        | 59               | 61            | 56         | 48       | 42                                                    | 49        | 29           | 45          | 30            | 1.20         | -0.76     | 18        | 25.9    | -2.7     | 78                    | 35.8        | 126 |           | 14.3          | -3.8             | -4.3          | 18.5      | -2     | 19      | 3.63  | -2.57 | -0.35    |
| 250084                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 60           | 54        | 48        | 61      | 56       | 55                    | 48          | 51  |           | 55            | 50               | 25            | 51        | 55     | 54      | 32    | 29    | 29       |
| ISHA250087                |              | MS 190080  |        | 76               | 124           | 95         | 89       | 104                                                   | 101       | 107          | 98          | 115           | 80           | 94        | 110       | 124     | 95       | 115                   | 120         | 114 | 109       | 118           | 90               | 113           | 106       | 91     | 108     | 112   | 115   | 113      |
| 6020481377                |              | OKT 140038 |        | 61               | 61            | 55         | 35       | 40                                                    | 47        | 20           | 42          | 14            | 1.98         | 0.17      | 19        | 25.9    | -2.7     | 77                    | 34.2        | 123 | -48       | 21.4          | 0.1              | -6.7          | 18.6      | -4     | 21      | 2.03  | 0.98  | 1.04     |
| 250087                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 63           | 56        | 35        | 61      | 55       | 50                    | 48          | 28  | 11        | 30            | 44               | 26            | 50        | 30     | 30      | 15    | 14    | 14       |
| ISHA250090                |              | BOS 211378 |        | 99               | 95            | 105        | 102      | 91                                                    | 91        |              |             | 92            | 99           | 101       | 96        | 95      | 105      | 99                    | 95          | 99  |           | 96            | 99               | 95            | 88        | 99     | 96      | 86    | 94    | 98       |
| 6020277577                |              |            |        | 46               | 34            | 30         | 16       | 26                                                    | 28        |              |             | 10            | 0.43         | -0.09     | 3         | 9.4     | -0.1     | 39                    | 14.8        | 68  |           | 8.9           | -6.3             | -3.0          | 7.4       | 1      | 10      | -0.54 | -0.24 | 0.21     |
| 250090                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 51           | 27        | 16        | 34      | 30       | 27                    | 26          | 16  |           | 17            | 32               | 18            | 29        | 17     | 17      | 10    | 9     | 9        |
| ISHA250097                |              | OKT 230515 |        | 107              | 94            | 94         | 112      | 86                                                    | 90        |              |             | 85            | 105          | 102       | 90        | 94      | 94       | 91                    | 94          | 88  |           | 91            | 91               | 92            | 86        | 91     | 93      | 83    | 99    | 102      |
| 6020190192                |              |            |        | 50               | 32            | 26         | 17       | 18                                                    | 27        |              |             | 6             | -0.09        | -0.15     | -4        | 8.7     | -3.0     | 21                    | 14.6        | 29  |           | 5.9           | 0.0              | -2.5          | 6.4       | -4     | 6       | -0.81 | 0.03  | 0.41     |
| 250097                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 55           | 31        | 17        | 32      | 26       | 25                    | 22          | 16  |           | 18            | 20               | 11            | 24        | 18     | 18      | 7     | 6     | 6        |
| ISHA250102                | 1            | MS 210012  |        | 84               | 107           | 103        | 97       | 108                                                   | 102       |              |             | 90            | 84           | 105       | 101       | 107     | 103      | 108                   | 101         | 94  |           | 98            | 114              | 110           | 98        | 107    | 97      | 88    | 104   | 96       |
| 6020482417                |              | TG 200062  |        | 58               | 48            | 42         | 27       | 35                                                    | 39        |              |             | 6             | 1.70         | -0.26     | 8         | 15.9    | -0.4     | 60                    | 20.0        | 49  |           | 9.8           | -18.6            | -6.0          | 13.6      | 5      | 10      | -0.29 | 0.36  | 0.07     |
| 250102                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 62           | 46        | 27        | 48      | 42       | 39                    | 39          | 27  |           | 29            | 37               | 25            | 42        | 29     | 28      | 7     | 6     | 6        |
| MS 250272                 | 4            | WO 170908  |        | 97               | 96            | 104        | 94       | 107                                                   | 97        | 103          | 93          | 97            | 95           | 106       | 104       | 96      | 104      | 96                    | 98          | 104 | 96        | 108           | 109              | 96            | 112       | 99     | 100     | 99    | 96    | 89       |
| 6020441199                |              | MS 180114  |        | 65               | 67            | 56         | 36       | 44                                                    | 50        | 21           | 44          | 19            | 0.78         | -0.30     | 12        | 9.8     | -0.2     | 32                    | 17.4        | 85  | -35       | 15.8          | -14.8            | -3.2          | 22.1      | 1      | 13      | 0.79  | -0.11 | -0.33    |
| MS250272                  |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 68           | 55        | 36        | 67      | 56       | 53                    | 50          | 29  | 11        | 33            | 49               | 32            | 51        | 32     | 31      | 20    | 18    | 17       |
| ISHA260007                |              | BOS 188154 |        | 85               | 113           | 83         | 100      | 105                                                   | 95        | 95           | 90          | 106           | 84           | 131       | 99        | 113     | 83       | 99                    | 110         | 103 | 101       | 106           | 96               | 102           | 112       | 94     | 106     | 112   | 101   | 105      |
| 6020737984                |              | BOS 188509 |        | 55               | 60            | 56         | 32       | 42                                                    | 46        | 30           | 43          | 12            | 1.63         | -1.28     | 6         | 19.6    | -6.1     | 39                    | 26.7        | 83  | -40       | 14.7          | -4.7             | -4.4          | 22.5      | -2     | 19      | 2.05  | 0.15  | 0.60     |
| 260007                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 56           | 51        | 32        | 60      | 56       | 49                    | 54          | 51  | 8         | 53            | 48               | 31            | 48        | 53     | 52      | 12    | 11    | 11       |
| ISHA260010                | 4            | BOS 144451 |        | 99               | 110           | 88         | 95       | 139                                                   | 125       | 96           | 118         | 104           | 93           | 117       | 103       | 110     | 88       | 97                    | 110         | 102 | 95        | 84            | 124              | 145           | 121       | 83     | 106     | 106   | 110   | 104      |
| 6020737992                |              | BOS 199336 |        | 49               | 60            | 58         | 39       | 52                                                    | 48        | 26           | 44          | 23            | 0.92         | -0.73     | 11        | 17.8    | -4.9     | 35                    | 26.6        | 79  | -34       | 2.2           | -26.1            | -13.1         | 28.1      | -9     | 19      | 1.48  | 0.66  | 0.53     |
| 260010                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 50           | 47        | 39        | 60      | 58       | 52                    | 54          | 37  | 13        | 40            | 57               | 44            | 55        | 39     | 38      | 24    | 22    | 21       |
| ISHA260013                |              | MS 190080  |        | 74               | 125           | 96         | 89       | 104                                                   | 101       | 107          | 98          | 115           | 78           | 95        | 110       | 125     | 96       | 116                   | 120         | 114 | 109       | 118           | 90               | 113           | 106       | 91     | 108     | 112   | 115   | 113      |
| 6020738016                |              | OKT 140038 |        | 67               | 61            | 55         | 35       | 40                                                    | 48        | 20           | 42          | 14            | 2.14         | 0.14      | 19        | 26.4    | -2.6     | 79                    | 34.8        | 123 | -48       | 21.4          | 0.1              | -6.7          | 18.6      | -4     | 21      | 2.03  | 0.98  | 1.04     |
| 260013                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 70           | 57        | 35        | 61      | 55       | 50                    | 48          | 28  | 11        | 30            | 44               | 26            | 50        | 30     | 30      | 15    | 14    | 14       |
| ISHA260016                | 7            | BOS 188154 |        | 80               | 115           | 84         | 93       | 110                                                   | 96        | 94           | 91          | 109           | 83           | 140       | 106       | 115     | 84       | 99                    | 108         | 107 | 107       | 107           | 100              | 109           | 115       | 93     | 109     | 115   | 102   | 106      |
| 6020781099                |              | BOS 199348 |        | 55               | 60            | 57         | 36       | 45                                                    | 47        | 32           | 44          | 19            | 1.77         | -1.65     | 14        | 20.8    | -5.9     | 39                    | 25.5        | 97  | -47       | 15.1          | -7.3             | -5.9          | 23.9      | -3     | 22      | 2.37  | 0.24  | 0.62     |
| 260016                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 56           | 51        | 36        | 60      | 57       | 51                    | 54          | 52  | 12        | 53            | 49               | 37            | 50        | 54     | 53      | 20    | 18    | 18       |
| ISHA260020                | 2            | MS 190080  |        | 112              | 104           | 89         | 92       | 110                                                   | 104       | 98           | 99          | 103           | 109          | 104       | 107       | 104     | 89       | 91                    | 104         | 102 | 97        | 109           | 107              | 115           | 102       | 91     | 102     | 104   | 109   | 102      |
| 6020772650                |              | MS 190399  |        | 65               | 58            | 50         | 30       | 39                                                    | 45        | 21           | 40          | 12            | -0.42        | -0.20     | 16        | 14.6    | -4.5     | 20                    | 22.2        | 80  | -35       | 16.3          | -13.3            | -7.1          | 16.2      | -4     | 15      | 1.27  | 0.62  | 0.39     |
| 260020                    |              |            |        |                  |               |            |          |                                                       |           |              |             |               | 68           | 54        | 30        | 58      | 50       | 46                    | 44          | 29  | 11        | 31            | 43               | 27            | 48        | 31     | 31      | 12    | 11    | 11       |

# Breeding Values and Accuracies: Cows

Green: >120 High  
White: 80-120 Average  
Orange: <80 Low

Inbreeding in red is high

Value <80 Value >120

Breeding values with an accuracy < 5% are not printed

| Animal                             |              |                          | Selection Values |               |           |           |             |           |              |             | Birth         |                    | Wean               |                 |                   |                   | Growth                |                   |                  | Fertility        |                   |                    |                    | Frame             |                 | Carcass         |                   |                   |                   |
|------------------------------------|--------------|--------------------------|------------------|---------------|-----------|-----------|-------------|-----------|--------------|-------------|---------------|--------------------|--------------------|-----------------|-------------------|-------------------|-----------------------|-------------------|------------------|------------------|-------------------|--------------------|--------------------|-------------------|-----------------|-----------------|-------------------|-------------------|-------------------|
| Index<br>EBV<br>Acc                | % Inbreeding | Sire ID<br>Dam ID        | Calv. Ease V     | Calf Growth V | Milk V    | Maint. V  | Fertility V | Cow Value | Growth Value | Prod. Value | Carcass Value | Birth wt dir       | Birth mat          | Mature wt       | Wean wt           | Wean mat          | Cow-Calf Ratio (Wean) | Postwean wt       | ADG              | FCR              | Scrotal Circ.     | Heifer Fertility   | Cow Fertility      | Longevity         | Height          | Length          | EMA               | Fat               | Marbling          |
| ID Number<br>Name                  |              |                          |                  |               |           |           |             |           |              |             |               |                    |                    |                 |                   |                   |                       |                   |                  |                  |                   |                    |                    |                   |                 |                 |                   |                   |                   |
| ISHA260021<br>6020781107<br>260021 | 7            | BOS 188154<br>BOS 199348 | 80<br>55         | 115<br>60     | 84<br>57  | 93<br>36  | 110<br>45   | 96<br>47  | 94<br>32     | 91<br>44    | 109<br>19     | 83<br>1.77<br>56   | 140<br>-1.65<br>51 | 106<br>14<br>36 | 115<br>20.8<br>60 | 84<br>-5.9<br>57  | 99<br>39<br>51        | 108<br>25.5<br>54 | 107<br>97<br>52  | 107<br>-47<br>12 | 107<br>15.1<br>53 | 100<br>-7.3<br>49  | 109<br>-5.9<br>37  | 115<br>23.9<br>50 | 93<br>-3<br>54  | 109<br>22<br>53 | 115<br>2.37<br>20 | 102<br>0.24<br>18 | 106<br>0.62<br>18 |
| ISHA260022<br>6020772668<br>260022 | 4            | BOS 144451<br>BOS 199336 | 99<br>49         | 110<br>60     | 88<br>58  | 95<br>39  | 139<br>52   | 125<br>48 | 96<br>26     | 118<br>44   | 104<br>23     | 93<br>0.92<br>50   | 117<br>-0.73<br>47 | 103<br>11<br>39 | 110<br>17.8<br>60 | 88<br>-4.9<br>58  | 97<br>35<br>52        | 110<br>26.6<br>54 | 102<br>79<br>37  | 95<br>-34<br>13  | 84<br>2.2<br>40   | 124<br>-26.1<br>57 | 145<br>-13.1<br>44 | 121<br>28.1<br>55 | 83<br>-9<br>39  | 106<br>19<br>38 | 106<br>1.48<br>24 | 110<br>0.66<br>22 | 104<br>0.53<br>21 |
| ISHA260026<br>6020822000<br>260026 |              | WO 220493<br>MS 210032   | 102<br>58        | 104<br>45     | 103<br>37 | 96<br>22  | 95<br>30    | 99<br>36  |              |             | 100<br>6      | 99<br>0.44<br>63   | 110<br>-0.45<br>42 | 102<br>9<br>22  | 104<br>14.5<br>45 | 103<br>-0.6<br>37 | 105<br>53<br>35       | 100<br>19.4<br>36 | 102<br>78<br>22  | 105<br>-44<br>6  | 112<br>17.7<br>23 | 84<br>4.9<br>34    | 102<br>-4.4<br>19  | 102<br>15.8<br>36 | 117<br>11<br>24 | 109<br>22<br>23 | 95<br>0.33<br>7   | 101<br>0.17<br>6  | 93<br>-0.13<br>6  |
| ISHA260028<br>6020855109<br>260028 | 1            | WO 220493<br>BOS 211011  | 90<br>54         | 108<br>46     | 108<br>40 | 95<br>24  | 107<br>31   | 108<br>36 |              |             | 101<br>12     | 92<br>1.02<br>59   | 97<br>0.07<br>38   | 102<br>10<br>24 | 108<br>17.0<br>46 | 108<br>0.8<br>40  | 113<br>72<br>37       | 107<br>24.1<br>36 | 103<br>84<br>18  | 102<br>-41<br>9  | 104<br>13.4<br>20 | 104<br>-10.9<br>35 | 103<br>-4.8<br>21  | 110<br>21.1<br>37 | 104<br>4<br>20  | 104<br>17<br>19 | 97<br>0.57<br>12  | 100<br>0.08<br>11 | 99<br>0.26<br>10  |
| ISHA260029<br>6020855117<br>260029 |              | WO 220493<br>OKT 160008  | 102<br>60        | 107<br>48     | 102<br>46 | 103<br>29 | 96<br>31    | 105<br>40 |              |             | 98<br>12      | 102<br>0.19<br>64  | 100<br>-0.04<br>46 | 95<br>2<br>29   | 107<br>16.0<br>48 | 102<br>-0.7<br>46 | 110<br>65<br>41       | 105<br>22.9<br>38 | 99<br>69<br>19   | 97<br>-36<br>6   | 106<br>14.6<br>20 | 80<br>8.3<br>34    | 101<br>-4.2<br>18  | 109<br>20.3<br>40 | 107<br>6<br>21  | 103<br>16<br>20 | 96<br>0.45<br>12  | 101<br>0.17<br>11 | 98<br>0.19<br>11  |
| ISHA260030<br>6020855125<br>260030 | 1            | WO 220493<br>CR 210124   | 111<br>58        | 112<br>46     | 99<br>39  | 87<br>27  | 115<br>29   | 118<br>37 |              |             | 109<br>8      | 112<br>-0.64<br>62 | 94<br>0.18<br>42   | 112<br>21<br>27 | 112<br>19.3<br>46 | 99<br>-1.6<br>39  | 105<br>55<br>37       | 115<br>30.3<br>40 | 111<br>112<br>26 | 110<br>-50<br>7  | 107<br>14.9<br>28 | 100<br>-7.5<br>30  | 130<br>-10.1<br>20 | 105<br>18.1<br>37 | 108<br>6<br>27  | 111<br>24<br>27 | 105<br>1.39<br>8  | 105<br>0.38<br>7  | 92<br>-0.16<br>7  |
| ISHA260034<br>6020889421<br>260034 |              | RLR 210037               | 105<br>51        | 102<br>34     | 99<br>28  | 117<br>22 | 82<br>22    | 98<br>29  | 75<br>20     | 89<br>27    | 82<br>22      | 104<br>0.03<br>56  | 101<br>-0.10<br>33 | 85<br>-10<br>22 | 102<br>13.5<br>34 | 99<br>-1.6<br>28  | 108<br>60<br>28       | 98<br>17.4<br>32  | 84<br>15<br>24   | 92<br>-30<br>15  | 100<br>11.1<br>26 | 96<br>-4.0<br>23   | 77<br>0.5<br>15    | 88<br>7.4<br>27   | 86<br>-7<br>26  | 90<br>3<br>25   | 79<br>-1.22<br>22 | 83<br>-0.90<br>21 | 96<br>0.04<br>20  |
| ISHA260126<br>6020841778<br>260126 |              | MS 190159                | 105<br>36        | 92<br>35      | 97<br>36  | 101<br>15 | 95<br>25    | 89<br>27  |              |             | 81<br>6       | 104<br>-0.01<br>36 | 100<br>-0.04<br>35 | 97<br>4<br>15   | 92<br>7.3<br>35   | 97<br>-2.2<br>36  | 88<br>14<br>29        | 89<br>10.5<br>24  | 86<br>22<br>10   |                  | 90<br>5.2<br>12   | 110<br>-15.6<br>29 | 97<br>-3.4<br>16   | 85<br>5.2<br>29   | 94<br>-2<br>10  | 89<br>3<br>10   | 78<br>-1.27<br>6  | 86<br>-0.68<br>6  | 85<br>-0.55<br>5  |
| ISHA260129<br>6020841752<br>260129 |              | MS 220147                | 97<br>51         | 100<br>34     | 95<br>30  | 101<br>16 | 94<br>23    | 90<br>29  |              |             | 87<br>6       | 96<br>0.67<br>56   | 104<br>-0.23<br>34 | 97<br>4<br>16   | 100<br>11.9<br>34 | 95<br>-2.9<br>30  | 95<br>30<br>27        | 98<br>17.5<br>25  | 90<br>37<br>16   | 93<br>-32<br>5   | 97<br>9.4<br>17   | 96<br>-4.6<br>28   | 107<br>-5.5<br>14  | 85<br>5.5<br>26   | 88<br>-5<br>17  | 91<br>5<br>17   | 84<br>-0.73<br>6  | 98<br>-0.02<br>6  | 96<br>0.10<br>5   |
| ISHA260131<br>6020841737<br>260130 |              | MS 200252                | 103<br>32        | 90<br>32      | 109<br>29 | 110<br>11 | 88<br>21    | 94<br>24  |              |             |               | 104<br>0.01<br>33  | 95<br>0.15<br>27   | 91<br>-3<br>11  | 90<br>6.6<br>32   | 109<br>1.2<br>29  | 100<br>41<br>24       | 88<br>10.0<br>20  | 85<br>17<br>10   |                  | 95<br>8.0<br>11   | 94<br>-2.4<br>28   | 94<br>-2.8<br>11   | 87<br>7.0<br>25   | 97<br>0<br>11   | 91<br>5<br>11   |                   |                   |                   |

# Selection List on Cow Value

## Bulls 2 years and older

| ID           | Name       | Sire ID    | Dam ID     | % Inbreeding | Horned / Polled | Myostatin |       |      |                | Calving Ease Value | Calf Growth Value | Milk Value | Maint. Value | Fertility Value | Cow Value | Growth Value | Prod Value |     |    |     |    |     |    |     |    |     |    |
|--------------|------------|------------|------------|--------------|-----------------|-----------|-------|------|----------------|--------------------|-------------------|------------|--------------|-----------------|-----------|--------------|------------|-----|----|-----|----|-----|----|-----|----|-----|----|
| Sorted on ID |            |            |            |              |                 | nt821     | Q204X | F94L | Genomic tested | Acc                | Acc               | Acc        | Acc          | Acc             | Acc       | Acc          | Acc        |     |    |     |    |     |    |     |    |     |    |
|              |            |            |            |              |                 |           |       |      |                | ★★★★★              |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |     |    |
| 1            | ISHA240002 | ISHA240002 | CR 200006  | CR 210132    | 0.0             |           |       |      |                | 120                | 45                | 114        | 46           | 94              | 40        | 89           | 29         | 114 | 31 | 120 | 36 | 117 | 24 | 118 | 34 |     |    |
| 2            | ISHA240003 | ISHA240003 | CR 200006  | CR 210124    | 0.0             |           |       |      |                | 119                | 45                | 114        | 46           | 88              | 40        | 90           | 29         | 119 | 31 | 122 | 36 | 117 | 24 | 119 | 34 |     |    |
|              |            |            |            |              |                 |           |       |      |                | ★★★★★              |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |     |    |
| 1            | BOS 244317 | BOS244317  | BOS 188138 | BOS 188509   | 1.1             |           |       |      |                | 119                | 48                | 100        | 58           | 96              | 48        | 121          | 31         | 100 | 40 | 118 | 42 | 100 | 22 | 113 | 38 |     |    |
| 2            | ISHA240037 | 240037     | WO 200145  | OKT 160008   | 0.1             |           |       |      |                | 102                | 61                | 111        | 60           | 105             | 56        | 94           | 38         | 105 | 40 | 111 | 47 | 107 | 21 | 107 | 42 |     |    |
| 3            | SCH 241006 | SCH241006  | SCH 170105 | SCH 160163   | 0.1             |           |       |      |                | 104                | 60                | 117        | 67           | 96              | 59        | 82           | 56         | 120 | 46 | 117 | 53 | 103 | 33 | 112 | 49 |     |    |
| 4            | SCH 241009 | SCH241009  | SCH 170105 | SCH 150037   | 0.2             |           |       |      |                | 101                | 60                | 119        | 67           | 103             | 59        | 74           | 56         | 112 | 45 | 111 | 53 | 102 | 30 | 106 | 48 |     |    |
| 5            | SCH 241010 | SCH241010  | SCH 180155 | SCH 150035   | 0.0             |           |       |      |                | 84                 | 60                | 115        | 67           | 112             | 59        | 104          | 53         | 108 | 44 | 118 | 52 | 105 | 32 | 114 | 48 |     |    |
|              |            |            |            |              |                 |           |       |      |                | ★★★★★              |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |     |    |
| 1            | BOS 244306 | BOS244306  | BOS 200043 | BOS 199722   | 3.4             |           |       |      |                | 87                 | 35                | 107        | 56           | 97              | 45        | 97           | 21         | 112 | 40 | 104 | 37 |     |    |     |    |     |    |
| 2            | BOS 244553 | BOS244553  | BOS 200450 | BOS 211011   | 7.0             |           |       |      |                | 86                 | 36                | 110        | 50           | 100             | 43        | 87           | 26         | 111 | 37 | 101 | 36 |     |    |     |    |     |    |
| 3            | ISHA230021 | ISHA230021 |            | MS 190138    | 0.0             | HH        | 1     | 0    | 0              | 6                  |                   | 87         | 80           | 118             | 78        | 111          | 77         | 96  | 76 | 95  | 77 | 107 | 71 | 112 | 76 | 105 | 72 |
| 4            | ISHA230026 | ISHA230026 |            | MS 190055    | 0.0             | PcPc      | 1     | 0    | 0              | 6                  |                   | 74         | 80           | 121             | 78        | 119          | 77         | 89  | 76 | 97  | 77 | 106 | 71 | 109 | 76 | 103 | 72 |
| 5            | ISHA240022 | ISHA240022 | MS 200305  | MS 190399    | 1.7             |           |       |      |                | 112                | 55                | 90         | 46           | 115             | 41        | 103          | 22         | 98  | 33 | 105 | 37 |     |    |     |    |     |    |
| 6            | MS 200305  | MS200305   | MS 170370  | MS 150018    | 0.0             |           |       |      |                | 112                | 63                | 83         | 63           | 122             | 50        | 108          | 21         | 90  | 41 | 100 | 45 |     |    |     |    |     |    |
| 7            | MS 210012  | MS210012   | MS 150092  | MS 110032    | 0.0             |           |       |      |                | 116                | 68                | 90         | 68           | 92              | 61        | 103          | 35         | 111 | 47 | 104 | 52 | 82  | 23 | 95  | 46 |     |    |
| 8            | WO 220493  | WO220493   | WO 190605  | WO 120891    | 0.1             |           |       |      |                | 101                | 66                | 107        | 62           | 114             | 50        | 101          | 27         | 92  | 30 | 107 | 44 |     |    |     |    |     |    |
|              |            |            |            |              |                 |           |       |      |                | ★★★★               |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |     |    |
| 1            | BOS 244564 | BOS244564  | BOS 200450 | BOS 199336   | 4.7             |           |       |      |                | 85                 | 34                | 113        | 50           | 94              | 44        | 85           | 26         | 105 | 38 | 93  | 36 |     |    |     |    |     |    |
| 2            | ISHA240014 | ISHA240014 | BOS 177663 | MS 190205    | 0.0             |           |       |      |                | 89                 | 63                | 112        | 58           | 97              | 51        | 94           | 37         | 98  | 40 | 96  | 46 | 97  | 26 | 92  | 42 |     |    |
| 3            | ISHA240031 | 240031     |            | RLR 210037   | 0.0             |           |       |      |                | 115                | 48                | 98         | 34           | 97              | 28        | 117          | 22         | 82  | 22 | 99  | 29 | 75  | 20 | 89  | 27 |     |    |
| 4            | MS 230137  | MS230137   | WO 170908  | MS 190029    | 4.7             | HH        | 1     | 0    | 0              | 6                  |                   | 81         | 85           | 109             | 85        | 107          | 83         | 89  | 81 | 94  | 82 | 90  | 76 | 107 | 80 | 88  | 77 |
| 5            | TG 200093  | TG200093   | MAJ 070622 | TG 170006    | 0.0             |           |       |      |                | 93                 | 65                | 109        | 63           | 109             | 57        | 90           | 47         | 93  | 48 | 96  | 52 | 101 | 32 | 92  | 48 |     |    |
|              |            |            |            |              |                 |           |       |      |                | ★★★★               |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |     |    |

# Selection List on Cow Value

## Bulls 2 years and older

| ID           | Name       | Sire ID    | Dam ID     | % Inbreeding | Horned / Polled | Myostatin |       |      |                                                                                     | Calving Ease Value | Calf Growth Value | Milk Value | Maint. Value | Fertility Value | Cow Value | Growth Value | Prod Value |     |    |    |    |     |    |    |    |
|--------------|------------|------------|------------|--------------|-----------------|-----------|-------|------|-------------------------------------------------------------------------------------|--------------------|-------------------|------------|--------------|-----------------|-----------|--------------|------------|-----|----|----|----|-----|----|----|----|
| Sorted on ID |            |            |            |              |                 | nt821     | Q204X | F94L | Genomic tested                                                                      | Acc                | Acc               | Acc        | Acc          | Acc             | Acc       | Acc          | Acc        |     |    |    |    |     |    |    |    |
|              |            |            |            |              |                 |           |       |      |                                                                                     |                    |                   |            |              |                 |           |              |            |     |    |    |    |     |    |    |    |
|              |            |            |            |              |                 |           |       |      |                                                                                     |                    |                   |            |              |                 |           |              |            |     |    |    |    |     |    |    |    |
| 1            | ISHA230013 | ISHA230013 | TG 200079  | 0.0          |                 |           |       |      |                                                                                     | 129                | 50                | 81         | 30           | 102             | 25        | 106          | 20         | 81  | 25 | 87 | 28 |     |    |    |    |
| 2            | ISHA230014 | ISHA230014 | TG 210002  | 0.0          |                 |           |       |      |                                                                                     | 117                | 48                | 84         | 17           | 98              | 18        | 115          | 12         | 75  | 14 | 82 | 20 |     |    |    |    |
| 3            | ISHA230019 | ISHA230019 | TG 200168  | 0.0          |                 |           |       |      |                                                                                     | 115                | 48                | 85         | 28           | 100             | 19        | 117          | 8          | 78  | 18 | 87 | 23 |     |    |    |    |
| 4            | ISHA230020 | ISHA230020 | TG 200101  | 0.0          |                 |           |       |      |                                                                                     | 110                | 50                | 87         | 31           | 99              | 23        | 109          | 13         | 85  | 22 | 85 | 26 |     |    |    |    |
| 5            | ISHA230023 | ISHA230023 | TG 200126  | 0.0          |                 |           |       |      |                                                                                     | 115                | 49                | 86         | 30           | 114             | 22        | 105          | 9          | 77  | 21 | 87 | 25 |     |    |    |    |
| 6            | ISHA230028 | ISHA230028 | TG 200253  | 0.0          |                 |           |       |      |                                                                                     | 104                | 49                | 88         | 29           | 110             | 22        | 111          | 13         | 82  | 20 | 89 | 25 |     |    |    |    |
| 7            | ISHA230032 | ISHA230032 | TG 200072  | 0.0          |                 |           |       |      |                                                                                     | 112                | 48                | 85         | 18           | 98              | 18        | 114          | 12         | 76  | 15 | 80 | 20 |     |    |    |    |
| 8            | MS 210168  | MS210168   | WO 170908  | 0.0          |                 |           |       |      |                                                                                     | 97                 | 64                | 89         | 66           | 108             | 53        | 100          | 30         | 96  | 41 | 89 | 48 |     |    |    |    |
| 9            | MS 240027  | MS240027   | MS 210032  | 0.0          |                 |           |       |      |                                                                                     | 103                | 52                | 93         | 33           | 100             | 28        | 103          | 18         | 83  | 25 | 82 | 29 |     |    |    |    |
| 10           | MS 240028  | MS240028   | MS 210096  | 0.0          |                 |           |       |      |                                                                                     | 98                 | 52                | 91         | 33           | 104             | 28        | 106          | 17         | 91  | 24 | 89 | 29 |     |    |    |    |
| 11           | OKT 230505 | OKT 230505 | OKT 160116 | 0.0          | HH              | 1         | 0     | 0    |  | 68                 | 84                | 126        | 85           | 81              | 82        | 83           | 80         | 102 | 81 | 85 | 76 | 112 | 79 | 85 | 77 |
|              |            |            |            |              |                 |           |       |      |                                                                                     |                    |                   |            |              |                 |           |              |            |     |    |    |    |     |    |    |    |
|              |            |            |            |              |                 |           |       |      |                                                                                     |                    |                   |            |              |                 |           |              |            |     |    |    |    |     |    |    |    |
| 1            | ISHA230029 | ISHA230029 | TG 200128  | 0.0          |                 |           |       |      |                                                                                     | 85                 | 50                | 105        | 33           | 98              | 25        | 97           | 19         | 76  | 25 | 75 | 28 |     |    |    |    |
| 2            | ISHA230031 | ISHA230031 | TG 200278  | 0.0          |                 |           |       |      |                                                                                     | 99                 | 48                | 89         | 28           | 105             | 18        | 112          | 8          | 69  | 18 | 74 | 23 |     |    |    |    |
| 3            | ISHA230033 | ISHA230033 | TG 200170  | 0.0          |                 |           |       |      |                                                                                     | 97                 | 29                | 92         | 30           | 119             | 21        | 104          | 9          | 67  | 21 | 79 | 21 |     |    |    |    |

Selection List on Cow Value

Cows 2 years and older

| ID<br>Name<br>Sorted on ID |            | Sire ID    | Dam ID     | % Inbreeding | Myostatin<br>Horned / Polled<br>nt821 Q204X F94L Genomic tested                                  | Calving Ease Value<br>Acc | Calf Growth Value<br>Acc | Milk Value<br>Acc | Maint. Value<br>Acc | Fertility Value<br>Acc | Cow Value<br>Acc | Growth Value<br>Acc | Prod Value<br>Acc |        |
|----------------------------|------------|------------|------------|--------------|--------------------------------------------------------------------------------------------------|---------------------------|--------------------------|-------------------|---------------------|------------------------|------------------|---------------------|-------------------|--------|
|                            |            |            |            |              |                                                                                                  | ★★★★★★                    |                          |                   |                     |                        |                  |                     |                   |        |
| 1                          | SCH 150035 | SCH150035  | SCH 120054 | SCH 130216   | 0.0                                                                                              |                           | 101 74                   | 126 76            | 100 80              | 95 73                  | 117 55           | 130 66              | 102 34            | 124 60 |
|                            |            |            |            |              |                                                                                                  | ★★★★★★☆                   |                          |                   |                     |                        |                  |                     |                   |        |
| 1                          | CR 210124  | CR210124   | SCH 150018 | CR 170068    | 0.6                                                                                              |                           | 122 68                   | 118 68            | 85 60               | 77 46                  | 132 48           | 125 54              | 115 29            | 122 49 |
| 2                          | CR 210132  | CR210132   | SCH 150018 | CR 170058    | 0.6                                                                                              |                           | 123 68                   | 117 67            | 96 60               | 75 46                  | 127 47           | 127 53              | 115 30            | 124 48 |
| 3                          | RLR 210037 | RLR 210037 | RLR 170031 | BOS 155237   | 1.7 HH 1 0 0  | 110 87                    | 120 87                   | 92 85             | 118 83              | 95 83                  | 121 78           | 82 83               | 111 79            |        |
|                            |            |            |            |              |                                                                                                  | ★★★★★                     |                          |                   |                     |                        |                  |                     |                   |        |
| 1                          | BOS 199722 | BOS199721  | BOS 155322 | BOS 144883   | 0.8                                                                                              |                           | 94 34                    | 111 65            | 95 60               | 102 26                 | 118 51           | 116 44              | 95 20             | 110 39 |
| 2                          | BOS 244127 | BOS244127  | BOS 211266 | BOS 211378   | 3.3                                                                                              |                           | 88 38                    | 115 56            | 99 44               | 88 25                  | 122 38           | 114 38              |                   |        |
| 3                          | MS 180071  | MS180071   | VYF 150036 | MS 150062    | 0.2                                                                                              |                           | 111 74                   | 92 73             | 107 74              | 109 38                 | 104 53           | 110 58              | 97 26             | 104 52 |
| 4                          | MS 190205  | MS190205   | WO 120465  | MS 110832    | 0.0                                                                                              |                           | 109 70                   | 95 67             | 100 65              | 108 38                 | 111 50           | 112 54              | 81 22             | 102 48 |
| 5                          | MS 200053  | MS200053   | VYF 150036 | MS 170304    | 0.2                                                                                              |                           | 127 73                   | 95 70             | 100 71              | 105 37                 | 110 50           | 117 56              | 98 26             | 111 50 |
| 6                          | MS 200252  | MS200252   | MS 170412  | MS 180094    | 0.7                                                                                              |                           | 102 63                   | 98 63             | 112 59              | 100 21                 | 107 42           | 110 47              |                   |        |
| 7                          | MS 220090  | MS220090   | WO 170908  | MS 180188    | 2.6                                                                                              |                           | 104 66                   | 94 66             | 107 51              | 98 32                  | 119 46           | 112 49              |                   |        |
| 8                          | MS 240081  | MS240081   | MS 210062  | MS 200231    | 0.8                                                                                              |                           | 94 60                    | 92 62             | 113 44              | 107 21                 | 113 34           | 110 42              |                   |        |
|                            |            |            |            |              |                                                                                                  | ★★★★★☆                    |                          |                   |                     |                        |                  |                     |                   |        |
| 1                          | BOS 188509 | BOS188509  | BOS 155687 | BOS 166030   | 0.2                                                                                              |                           | 98 54                    | 104 69            | 96 64               | 109 31                 | 102 52           | 105 51              | 99 26             | 100 46 |
| 2                          | BOS 199340 | BOS199340  | BOS 144062 | BOS 144106   | 3.5                                                                                              |                           | 95 46                    | 109 69            | 96 65               | 97 39                  | 101 54           | 100 51              | 101 26            | 96 46  |
| 3                          | BOS 199348 | BOS199348  | BOS 133097 | BOS 144066   | 3.8                                                                                              |                           | 98 54                    | 108 70            | 97 68               | 93 43                  | 114 60           | 109 55              | 98 34             | 103 51 |
| 4                          | BOS 211011 | BOS211011  | BOS 155069 | BOS 144348   | 4.7                                                                                              |                           | 91 53                    | 105 68            | 99 63               | 91 39                  | 123 54           | 109 52              | 100 24            | 104 46 |
| 5                          | BOS 211378 | BOS211378  | BOS 166052 | BOS 144349   | 2.9                                                                                              |                           | 87 49                    | 110 68            | 105 60              | 90 32                  | 113 52           | 108 49              | 115 21            | 106 43 |
| 6                          | BOS 244562 | BOS244562  | BOS 200450 | BOS 199348   | 5.1                                                                                              |                           | 91 36                    | 111 50            | 99 45               | 88 27                  | 107 39           | 101 37              | 104 20            | 98 34  |
| 7                          | ISHA240011 | 240011     | MS 190080  | MS 190399    | 2.0                                                                                              |                           | 97 58                    | 111 58            | 92 50               | 92 30                  | 110 39           | 104 44              | 98 21             | 99 39  |
| 8                          | MS 190159  | MS190159   | WO 140165  | MS 080817    | 0.0                                                                                              |                           | 106 72                   | 100 69            | 88 73               | 90 30                  | 120 49           | 104 55              |                   |        |
| 9                          | MS 190399  | MS190399   | WO 120465  | MS 120055    | 0.0                                                                                              |                           | 104 71                   | 99 67             | 109 64              | 100 38                 | 107 51           | 109 54              | 86 22             | 101 48 |
| 10                         | MS 200269  | MS200269   | MS 150092  | MS 110086    | 2.4                                                                                              |                           | 104 72                   | 103 71            | 96 69               | 93 43                  | 113 54           | 106 57              | 95 32             | 100 52 |
| 11                         | MS 210096  | MS210096   | WO 170908  | MS 170231    | 2.4                                                                                              |                           | 97 70                    | 96 65             | 101 55              | 95 35                  | 114 49           | 101 51              | 105 20            | 98 45  |

# Selection List on Cow Value

## Cows 2 years and older

| ID           |      | Name   | Sire ID    | Dam ID     | % Inbreeding | Myostatin                                                   | Calving Ease Value | Calf Growth Value | Milk Value | Maint. Value | Fertility Value | Cow Value | Growth Value | Prod Value |     |    |     |    |     |    |     |    |
|--------------|------|--------|------------|------------|--------------|-------------------------------------------------------------|--------------------|-------------------|------------|--------------|-----------------|-----------|--------------|------------|-----|----|-----|----|-----|----|-----|----|
| Sorted on ID |      |        |            |            |              | Horned / Polled<br>nt821<br>Q204X<br>F94L<br>Genomic tested | Acc                | Acc               | Acc        | Acc          | Acc             | Acc       | Acc          | Acc        |     |    |     |    |     |    |     |    |
|              |      |        |            |            |              |                                                             | ★★★★☆              |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |
| 12           | MS   | 220107 | MS220107   | MS 190080  | MS 180278    | 2.0                                                         | 92                 | 66                | 108        | 67           | 94              | 59        | 90           | 30         | 122 | 45 | 108 | 50 | 99  | 21 | 103 | 44 |
| 13           | MS   | 220147 | MS220147   | MS 190080  | MS 180310    | 4.3                                                         | 102                | 69                | 112        | 68           | 80              | 60        | 91           | 30         | 119 | 46 | 107 | 51 | 99  | 22 | 102 | 45 |
| 14           | MS   | 240276 | MS240276   | MS 210062  | MS 170380    | 6.8                                                         | 100                | 60                | 88         | 63           | 109             | 47        | 117          | 26         | 108 | 35 | 109 | 44 |     |    |     |    |
| 15           | OKT  | 140038 | OKT 140038 | OKT 100051 | OKT 100050   | 13.4                                                        | 69                 | 81                | 125        | 79           | 114             | 81        | 94           | 49         | 95  | 53 | 107 | 64 | 105 | 20 | 103 | 55 |
| 16           | OKT  | 160008 | OKT 160008 | OKT 100051 | OKT 030009   | 10.3                                                        | 107                | 76                | 105        | 74           | 90              | 78        | 107          | 50         | 100 | 52 | 104 | 61 | 89  | 21 | 97  | 53 |
| 17           | OKT  | 230515 | OKT 230515 | V8 190337  | OKT 160008   | 0.2                                                         | 99                 | 64                | 109        | 64           | 85              | 51        | 103          | 34         | 103 | 37 | 101 | 47 | 94  | 20 | 95  | 42 |
| 18           | SCH  | 241004 | SCH241004  | SCH 170105 | SCH 180388   | 2.2                                                         | 109                | 60                | 107        | 62           | 87              | 57        | 84           | 56         | 114 | 45 | 103 | 52 | 106 | 32 | 99  | 48 |
| 19           | TG   | 200062 | TG200062   | BOS 110085 | BA 140278    | 0.1                                                         | 69                 | 70                | 115        | 69           | 110             | 59        | 92           | 40         | 106 | 51 | 101 | 54 | 93  | 23 | 95  | 48 |
| 20           | WO   | 230497 | WO230497   | WO 190347  | WO 150805    | 0.0                                                         | 125                | 64                | 85         | 67           | 98              | 53        | 129          | 39         | 95  | 38 | 109 | 49 | 72  | 23 | 98  | 44 |
|              |      |        |            |            |              |                                                             | ★★★★               |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |
| 1            | BOS  | 199336 | BOS199336  | BOS 144056 | BOS 133452   | 4.0                                                         | 90                 | 48                | 111        | 69           | 86              | 66        | 87           | 40         | 110 | 56 | 95  | 52 | 95  | 24 | 90  | 46 |
| 2            | ISHA | 230016 | ISHA230016 |            | MS 190205    | 0.0                                                         | 98                 | 52                | 93         | 33           | 105             | 32        | 113          | 19         | 90  | 25 | 94  | 30 |     |    |     |    |
| 3            | ISHA | 240010 | 240010     | BOS 177663 | MS 190205    | 0.0                                                         | 98                 | 58                | 108        | 58           | 95              | 51        | 94           | 37         | 98  | 40 | 96  | 45 | 97  | 26 | 92  | 41 |
| 4            | ISHA | 240012 | 240012     | WO 170908  | MS 190029    | 4.7                                                         | 87                 | 57                | 100        | 58           | 106             | 51        | 95           | 34         | 96  | 44 | 90  | 45 | 105 | 20 | 87  | 40 |
| 5            | MS   | 180114 | MS180114   | WO 120465  | MS 120117    | 0.0                                                         | 93                 | 74                | 100        | 73           | 107             | 77        | 94           | 40         | 105 | 55 | 98  | 59 | 89  | 22 | 92  | 52 |
| 6            | MS   | 240022 | MS240022   | OBS 180168 | MS 210026    | 0.5                                                         | 113                | 63                | 93         | 55           | 81              | 46        | 117          | 25         | 92  | 38 | 91  | 42 | 84  | 24 | 84  | 38 |
| 7            | MS   | 240097 | MS240097   | MS 210062  | MS 200188    | 0.0                                                         | 93                 | 59                | 99         | 62           | 108             | 45        | 95           | 17         | 102 | 33 | 97  | 41 |     |    |     |    |
|              |      |        |            |            |              |                                                             | ★★★★☆              |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |
| 1            | BOS  | 244551 | BOS244551  | BOS 200450 | BOS 199174   | 4.7                                                         | 81                 | 35                | 113        | 50           | 97              | 45        | 82           | 26         | 94  | 38 | 84  | 36 |     |    |     |    |
| 2            | ISHA | 230017 | ISHA230017 |            | TG 200062    | 0.0                                                         | 71                 | 51                | 107        | 34           | 113             | 29        | 102          | 20         | 87  | 26 | 89  | 30 |     |    |     |    |
| 3            | ISHA | 230022 | ISHA230022 |            | TG 200250    | 0.0                                                         | 111                | 48                | 85         | 26           | 100             | 19        | 115          | 9          | 83  | 19 | 87  | 23 |     |    |     |    |
| 4            | ISHA | 230024 | ISHA230024 |            | TG 200082    | 0.0                                                         | 103                | 51                | 92         | 33           | 108             | 28        | 106          | 21         | 81  | 26 | 86  | 29 |     |    |     |    |
| 5            | ISHA | 230025 | ISHA230025 |            | TG 200090    | 0.0                                                         | 94                 | 50                | 93         | 30           | 110             | 25        | 109          | 20         | 80  | 25 | 85  | 28 |     |    |     |    |
| 6            | ISHA | 230027 | ISHA230027 |            | TG 200070    | 0.0                                                         | 114                | 51                | 86         | 28           | 99              | 26        | 110          | 13         | 83  | 22 | 85  | 26 |     |    |     |    |
| 7            | MS   | 210026 | MS210026   |            | MS 160325    | 0.0                                                         | 99                 | 58                | 88         | 53           | 107             | 36        | 105          | 18         | 79  | 38 | 80  | 38 |     |    |     |    |
| 8            | MS   | 210032 | MS210032   | MS 150092  | MS 150071    | 0.0                                                         | 99                 | 70                | 101        | 65           | 92              | 56        | 92           | 36         | 98  | 50 | 88  | 52 | 91  | 23 | 83  | 46 |
| 9            | WO   | 230897 | WO230897   | WO 200195  | WO 210671    | 0.0                                                         | 117                | 53                | 90         | 55           | 87              | 39        | 97           | 20         | 95  | 24 | 85  | 36 |     |    |     |    |
|              |      |        |            |            |              |                                                             |                    |                   |            |              |                 |           |              |            |     |    |     |    |     |    |     |    |

Selection List on Cow Value

Cows 2 years and older

| ID<br>Name<br>Sorted on ID |            |           | Sire ID    | Dam ID     | % Inbreeding | Horned / Polled | Myostatin |  |  |  | Calving Ease Value<br>Acc | Calf Growth Value<br>Acc | Milk Value<br>Acc | Maint. Value<br>Acc | Fertility Value<br>Acc | Cow Value<br>Acc | Growth Value<br>Acc | Prod Value<br>Acc |  |
|----------------------------|------------|-----------|------------|------------|--------------|-----------------|-----------|--|--|--|---------------------------|--------------------------|-------------------|---------------------|------------------------|------------------|---------------------|-------------------|--|
|                            |            |           |            |            |              |                 |           |  |  |  |                           |                          |                   |                     |                        |                  |                     |                   |  |
| 1                          | BOS 199174 | BOS199174 | BOS 144056 | BOS 133126 | 4.0          |                 |           |  |  |  | 8252                      | 11270                    | 9368              | 8040                | 8956                   | 7653             | 9326                | 7248              |  |

Selection List on Cow Value

Bull Calves younger than 2 years

| ID           | Name       | Sire ID | Dam ID     | % Inbreeding | Horned / Polled | Myostatin                                | Calving Ease Value | Calf Growth Value | Milk Value | Maint. Value | Fertility Value | Cow Value | Growth Value | Prod Value |  |
|--------------|------------|---------|------------|--------------|-----------------|------------------------------------------|--------------------|-------------------|------------|--------------|-----------------|-----------|--------------|------------|--|
| Sorted on ID |            |         |            |              |                 | nt821<br>Q204X<br>F94L<br>Genomic tested | Acc                | Acc               | Acc        | Acc          | Acc             | Acc       | Acc          | Acc        |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
| 1            | ISHA250040 | 250040  | WO 181048  | SCH 150035   | 0.0             |                                          | 8959               | 11360             | 11855      | 9944         | 11039           | 12148     | 9826         | 11544      |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
| 1            | ISHA250031 | 250031  | MS 190080  | CR 210132    | 1.6             |                                          | 10264              | 12158             | 8748       | 8033         | 12038           | 11245     | 11224        | 11041      |  |
| 2            | ISHA250067 | 250067  | MS 210012  | CR 210124    | 0.5             |                                          | 12758              | 10148             | 8743       | 8829         | 12534           | 11739     |              |            |  |
| 3            | ISHA250070 | 250070  | MS 200305  | SCH 150035   | 0.0             |                                          | 10848              | 10549             | 11147      | 10038        | 10334           | 11540     | 9120         | 10836      |  |
| 4            | ISHA260019 | 260019  | WO 220493  | CR 210132    | 0.7             |                                          | 12257              | 10846             | 10339      | 8627         | 11028           | 11637     |              |            |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
| 1            | ISHA250005 | 250005  | MS 190080  | MS 190399    | 2.0             |                                          | 9758               | 11158             | 9250       | 9230         | 11039           | 10444     | 9821         | 9939       |  |
| 2            | ISHA250018 | 250018  | MS 200305  | MS 190205    | 1.7             |                                          | 11147              | 8946              | 11141      | 10822        | 10032           | 10635     |              |            |  |
| 3            | ISHA250027 | 250027  | WO 181048  | MS 210032    | 0.7             |                                          | 8462               | 10257             | 11547      | 9731         | 10037           | 10044     | 9322         | 9440       |  |
| 4            | ISHA250035 | 250035  | BOS 177663 | SCH 150035   | 0.0             |                                          | 9559               | 12461             | 9556       | 9048         | 10142           | 10849     | 10829        | 10545      |  |
| 5            | ISHA250036 | 250036  | WO 181048  | OKT 160008   | 0.1             |                                          | 9059               | 10260             | 11355      | 10636        | 10238           | 10846     | 9222         | 10141      |  |
| 6            | ISHA250043 | 250043  | MS 190080  | OKT 140038   | 0.0             |                                          | 7167               | 12761             | 9755       | 8935         | 10440           | 10248     | 10720        | 9942       |  |
| 7            | ISHA250086 | 250086  | WO 181048  | OKT 160008   | 0.1             |                                          | 9059               | 10260             | 11355      | 10636        | 10238           | 10846     | 9222         | 10141      |  |
| 8            | ISHA250088 | 250088  | WO 181048  | OKT 160008   | 0.1             |                                          | 9059               | 10260             | 11355      | 10636        | 10238           | 10846     | 9222         | 10141      |  |
| 9            | ISHA260002 | 260002  |            | SCH 150035   | 0.0             |                                          | 10437              | 10538             | 10340      | 10636        | 9328            | 10433     |              |            |  |
| 10           | ISHA260011 | 260011  | BOS 177663 | BOS 199722   | 0.0             |                                          | 9048               | 11657             | 9349       | 9334         | 10141           | 10043     | 10426        | 9640       |  |
| 11           | ISHA260017 | 260017  | WO 980062  | BOS 211378   | 11.0            |                                          | 8955               | 11260             | 9858       | 9450         | 10555           | 10251     | 10538        | 9948       |  |
| 12           | ISHA260018 | 260018  | MS 200305  | MS 210096    | 2.7             |                                          | 9958               | 9245              | 11337      | 10020        | 10232           | 10036     |              |            |  |
| 13           | ISHA260025 | 260025  | WO 220493  | BOS 188509   | 1.0             |                                          | 9455               | 10846             | 10641      | 10420        | 9730            | 10636     |              |            |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
|              |            |         |            |              |                 |                                          |                    |                   |            |              |                 |           |              |            |  |
| 1            | ISHA250004 | 250004  | MS 190080  | MS 190029    | 3.8             |                                          | 8458               | 11558             | 9150       | 9028         | 9939            | 9144      | 10120        | 8739       |  |
| 2            | ISHA250020 | 250020  | MS 190080  | MS 190029    | 3.8             |                                          | 8458               | 11558             | 9150       | 9028         | 9939            | 9144      | 10120        | 8739       |  |
| 3            | ISHA250030 | 250030  | BOS 188650 | SCH 180388   | 1.1             |                                          | 10852              | 10761             | 7952       | 10542        | 10143           | 9946      | 11227        | 9842       |  |
| 4            | ISHA250041 | 250041  | MS 190080  | SCH 180388   | 2.6             |                                          | 9160               | 11661             | 8453       | 8843         | 10841           | 9748      | 11427        | 9644       |  |
| 5            | ISHA250044 | 250044  | BOS 188650 | SCH 180388   | 1.1             |                                          | 10852              | 10761             | 7952       | 10542        | 10143           | 9946      | 11227        | 9842       |  |

Selection List on Cow Value

Bull Calves younger than 2 years

| ID           |            | Name   | Sire ID    | Dam ID     | % Inbreeding | Horned / Polled | Myostatin |       |      | Calving Ease Value | Calf Growth Value | Milk Value | Maint. Value | Fertility Value | Cow Value | Growth Value | Prod Value |    |     |    |    |    |     |    |    |    |
|--------------|------------|--------|------------|------------|--------------|-----------------|-----------|-------|------|--------------------|-------------------|------------|--------------|-----------------|-----------|--------------|------------|----|-----|----|----|----|-----|----|----|----|
| Sorted on ID |            |        |            |            |              |                 | nt821     | Q204X | F94L | Genomic tested     | Acc               | Acc        | Acc          | Acc             | Acc       | Acc          | Acc        |    |     |    |    |    |     |    |    |    |
|              |            |        |            |            |              |                 |           |       |      | ★★★★               |                   |            |              |                 |           |              |            |    |     |    |    |    |     |    |    |    |
| 6            | ISHA250064 | 250064 | WO 170908  | MS 190055  | 4.7          |                 |           |       |      |                    | 79                | 64         | 104          | 57              | 111       | 47           | 95         | 34 | 98  | 42 | 93 | 45 | 109 | 20 | 91 | 40 |
| 7            | ISHA250081 | 250081 | MS 190080  | SCH 180388 | 2.6          |                 |           |       |      |                    | 91                | 60         | 116          | 61              | 84        | 53           | 88         | 43 | 108 | 41 | 97 | 48 | 114 | 27 | 96 | 44 |
| 8            | ISHA250083 | 250083 | BOS 177663 | OKT 160008 | 0.0          |                 |           |       |      |                    | 96                | 60         | 113          | 60              | 91        | 56           | 94         | 41 | 93  | 41 | 93 | 48 | 101 | 26 | 89 | 44 |
| 9            | ISHA260001 | 260001 |            | BOS 199348 | 0.0          |                 |           |       |      |                    | 102               | 27         | 96           | 35              | 102       | 34           | 103        | 22 | 91  | 30 | 92 | 27 |     |    |    |    |
| 10           | ISHA260108 | 250108 |            | WO 230497  | 0.0          |                 |           |       |      |                    | 114               | 32         | 84           | 33              | 102       | 26           | 123        | 20 | 82  | 19 | 93 | 24 |     |    |    |    |
| 11           | ISHA260127 | 260127 |            | MS 180071  | 0.0          |                 |           |       |      |                    | 106               | 53         | 88           | 36              | 107       | 37           | 113        | 19 | 86  | 27 | 93 | 32 |     |    |    |    |
| 12           | ISHA260128 | 260128 |            | MS 200053  | 0.0          |                 |           |       |      |                    | 116               | 52         | 88           | 35              | 103       | 36           | 112        | 19 | 89  | 25 | 97 | 31 |     |    |    |    |
|              |            |        |            |            |              |                 |           |       |      | ★★★★☆              |                   |            |              |                 |           |              |            |    |     |    |    |    |     |    |    |    |
| 1            | ISHA250019 | 250019 | BOS 177663 | MS 190138  | 0.0          |                 |           |       |      |                    | 88                | 54         | 115          | 54              | 100       | 42           | 90         | 32 | 84  | 37 | 88 | 41 | 106 | 24 | 86 | 38 |
| 2            | ISHA250106 | 250106 |            | BOS 199336 | 0.0          |                 |           |       |      |                    | 97                | 24         | 97           | 35              | 96        | 33           | 99         | 20 | 90  | 28 | 84 | 26 |     |    |    |    |
|              |            |        |            |            |              |                 |           |       |      | ★★★★               |                   |            |              |                 |           |              |            |    |     |    |    |    |     |    |    |    |
| 1            | ISHA250103 | 250103 |            | BOS 199174 | 0.0          |                 |           |       |      |                    | 76                | 47         | 104          | 35              | 104       | 34           | 94         | 20 | 79  | 28 | 73 | 30 |     |    |    |    |

Selection List on Cow Value  
Heifers younger than 2 years

| ID<br><div>Sorted on ID</div> |            |        | Name       | Sire ID    | Dam ID | % Inbreeding | Horned / Polled | Myostatin |  | Genomic tested | Calving Ease Value<br><div>Acc</div> | Calf Growth Value<br><div>Acc</div> | Milk Value<br><div>Acc</div> | Maint. Value<br><div>Acc</div> | Fertility Value<br><div>Acc</div> | Cow Value<br><div>Acc</div> | Growth Value<br><div>Acc</div> | Prod Value<br><div>Acc</div> |     |    |     |    |     |    |     |    |  |
|-------------------------------|------------|--------|------------|------------|--------|--------------|-----------------|-----------|--|----------------|--------------------------------------|-------------------------------------|------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|------------------------------|-----|----|-----|----|-----|----|-----|----|--|
|                               |            |        |            |            |        |              |                 |           |  |                | ★★★★★                                |                                     |                              |                                |                                   |                             |                                |                              |     |    |     |    |     |    |     |    |  |
| 1                             | ISHA250074 | 250074 | WO 181048  | SCH 150035 | 0.0    |              |                 |           |  |                | 89                                   | 59                                  | 113                          | 60                             | 118                               | 55                          | 99                             | 44                           | 110 | 39 | 121 | 48 | 98  | 26 | 115 | 44 |  |
| 2                             | ISHA260010 | 260010 | BOS 144451 | BOS 199336 | 3.9    |              |                 |           |  |                | 99                                   | 49                                  | 110                          | 60                             | 88                                | 58                          | 95                             | 39                           | 139 | 52 | 125 | 48 | 96  | 26 | 118 | 44 |  |
| 3                             | ISHA260022 | 260022 | BOS 144451 | BOS 199336 | 3.9    |              |                 |           |  |                | 99                                   | 49                                  | 110                          | 60                             | 88                                | 58                          | 95                             | 39                           | 139 | 52 | 125 | 48 | 96  | 26 | 118 | 44 |  |
|                               |            |        |            |            |        |              |                 |           |  |                | ★★★★★                                |                                     |                              |                                |                                   |                             |                                |                              |     |    |     |    |     |    |     |    |  |
| 1                             | ISHA250017 | 250017 | WO 181048  | MS 190399  | 1.4    |              |                 |           |  |                | 90                                   | 58                                  | 100                          | 58                             | 122                               | 50                          | 102                            | 31                           | 105 | 38 | 111 | 44 | 90  | 22 | 103 | 40 |  |
| 2                             | ISHA250069 | 250069 | BOS 188650 | SCH 150035 | 0.0    |              |                 |           |  |                | 111                                  | 51                                  | 115                          | 60                             | 84                                | 54                          | 110                            | 42                           | 108 | 42 | 119 | 46 | 104 | 26 | 114 | 42 |  |
| 3                             | ISHA250080 | 250080 | BOS 188650 | SCH 150035 | 0.0    |              |                 |           |  |                | 111                                  | 51                                  | 115                          | 60                             | 84                                | 54                          | 110                            | 42                           | 108 | 42 | 119 | 46 | 104 | 26 | 114 | 42 |  |
| 4                             | ISHA260030 | 260030 | WO 220493  | CR 210124  | 0.7    |              |                 |           |  |                | 111                                  | 58                                  | 112                          | 46                             | 99                                | 39                          | 87                             | 27                           | 115 | 29 | 118 | 37 |     |    |     |    |  |
|                               |            |        |            |            |        |              |                 |           |  |                | ★★★★★                                |                                     |                              |                                |                                   |                             |                                |                              |     |    |     |    |     |    |     |    |  |
| 1                             | ISHA250011 | 250011 | MS 190080  | MS 190399  | 2.0    |              |                 |           |  |                | 97                                   | 58                                  | 111                          | 58                             | 92                                | 50                          | 92                             | 30                           | 110 | 39 | 104 | 44 | 98  | 21 | 99  | 39 |  |
| 2                             | ISHA250012 | 250012 | MS 200305  | MS 190205  | 1.7    |              |                 |           |  |                | 111                                  | 47                                  | 89                           | 46                             | 111                               | 41                          | 108                            | 22                           | 100 | 32 | 106 | 35 |     |    |     |    |  |
| 3                             | ISHA250013 | 240013 | MS 200305  | MS 190205  | 1.7    |              |                 |           |  |                | 111                                  | 47                                  | 89                           | 46                             | 111                               | 41                          | 108                            | 22                           | 100 | 32 | 106 | 35 |     |    |     |    |  |
| 4                             | ISHA250032 | 250032 | WO 181048  | MS 210096  | 2.8    |              |                 |           |  |                | 93                                   | 64                                  | 94                           | 57                             | 117                               | 47                          | 99                             | 30                           | 108 | 37 | 105 | 44 | 100 | 22 | 101 | 40 |  |
| 5                             | ISHA250050 | 250050 | MS 190080  | OKT 140038 | 0.0    |              |                 |           |  |                | 76                                   | 61                                  | 124                          | 61                             | 95                                | 55                          | 89                             | 35                           | 104 | 40 | 101 | 47 | 107 | 20 | 98  | 42 |  |
| 6                             | ISHA250053 | 250053 | MS 190080  | MS 190399  | 2.0    |              |                 |           |  |                | 106                                  | 65                                  | 107                          | 58                             | 90                                | 50                          | 92                             | 30                           | 110 | 39 | 104 | 45 | 98  | 21 | 99  | 40 |  |
| 7                             | ISHA250079 | 250079 | MS 190080  | OKT 140038 | 0.0    |              |                 |           |  |                | 76                                   | 61                                  | 124                          | 61                             | 95                                | 55                          | 89                             | 35                           | 104 | 40 | 101 | 47 | 107 | 20 | 98  | 42 |  |
| 8                             | ISHA250084 | 250084 | BOS 177663 | SCH 150035 | 0.0    |              |                 |           |  |                | 95                                   | 59                                  | 124                          | 61                             | 95                                | 56                          | 90                             | 48                           | 101 | 42 | 108 | 49 | 108 | 29 | 105 | 45 |  |
| 9                             | ISHA250087 | 250087 | MS 190080  | OKT 140038 | 0.0    |              |                 |           |  |                | 76                                   | 61                                  | 124                          | 61                             | 95                                | 55                          | 89                             | 35                           | 104 | 40 | 101 | 47 | 107 | 20 | 98  | 42 |  |
| 10                            | ISHA250102 | 250102 | MS 210012  | TG 200062  | 0.6    |              |                 |           |  |                | 84                                   | 58                                  | 107                          | 48                             | 103                               | 42                          | 97                             | 27                           | 108 | 35 | 102 | 39 |     |    |     |    |  |
| 11                            | ISHA260013 | 260013 | MS 190080  | OKT 140038 | 0.0    |              |                 |           |  |                | 74                                   | 67                                  | 125                          | 61                             | 96                                | 55                          | 89                             | 35                           | 104 | 40 | 101 | 48 | 107 | 20 | 98  | 42 |  |
| 12                            | ISHA260020 | 260020 | MS 190080  | MS 190399  | 2.0    |              |                 |           |  |                | 112                                  | 65                                  | 104                          | 58                             | 89                                | 50                          | 92                             | 30                           | 110 | 39 | 104 | 45 | 98  | 21 | 99  | 40 |  |
| 13                            | ISHA260028 | 260028 | WO 220493  | BOS 211011 | 0.9    |              |                 |           |  |                | 90                                   | 54                                  | 108                          | 46                             | 108                               | 40                          | 95                             | 24                           | 107 | 31 | 108 | 36 |     |    |     |    |  |
| 14                            | ISHA260029 | 260029 | WO 220493  | OKT 160008 | 0.1    |              |                 |           |  |                | 102                                  | 60                                  | 107                          | 48                             | 102                               | 46                          | 103                            | 29                           | 96  | 31 | 105 | 40 |     |    |     |    |  |
|                               |            |        |            |            |        |              |                 |           |  |                | ★★★★★                                |                                     |                              |                                |                                   |                             |                                |                              |     |    |     |    |     |    |     |    |  |
| 1                             | ISHA250015 | 250015 | MS 200305  | MS 190029  | 8.0    |              |                 |           |  |                | 97                                   | 46                                  | 95                           | 46                             | 114                               | 41                          | 101                            | 19                           | 87  | 33 | 91  | 35 |     |    |     |    |  |
| 2                             | ISHA250028 | 250028 | BOS 177663 | MS 190205  | 0.0    |              |                 |           |  |                | 99                                   | 63                                  | 108                          | 58                             | 95                                | 51                          | 94                             | 37                           | 98  | 40 | 97  | 46 | 97  | 26 | 92  | 42 |  |

Selection List on Cow Value  
Heifers younger than 2 years

| ID<br><div>Sorted on ID</div> |            | Name     | Sire ID    | Dam ID     | % Inbreeding | Horned / Polled | Myostatin |  | Genomic tested | Calving Ease Value<br><div>Acc</div> | Calf Growth Value<br><div>Acc</div> | Milk Value<br><div>Acc</div> | Maint. Value<br><div>Acc</div> | Fertility Value<br><div>Acc</div> | Cow Value<br><div>Acc</div> | Growth Value<br><div>Acc</div> | Prod Value<br><div>Acc</div> |  |
|-------------------------------|------------|----------|------------|------------|--------------|-----------------|-----------|--|----------------|--------------------------------------|-------------------------------------|------------------------------|--------------------------------|-----------------------------------|-----------------------------|--------------------------------|------------------------------|--|
|                               |            |          |            |            |              |                 |           |  |                | ★★★★                                 |                                     |                              |                                |                                   |                             |                                |                              |  |
| 3                             | ISHA250037 | 250037   | MS 200305  | SCH 180388 | 1.5          |                 |           |  |                | 105 <div>49</div>                    | 96 <div>50</div>                    | 107 <div>44</div>            | 97 <div>38</div>               | 96 <div>35</div>                  | 97 <div>40</div>            | 100 <div>21</div>              | 92 <div>36</div>             |  |
| 4                             | ISHA250047 | 250047   | MS 190080  | SCH 180388 | 2.6          |                 |           |  |                | 91 <div>60</div>                     | 116 <div>61</div>                   | 84 <div>53</div>             | 88 <div>43</div>               | 108 <div>41</div>                 | 97 <div>48</div>            | 114 <div>27</div>              | 96 <div>44</div>             |  |
| 5                             | ISHA250049 | 250049   | BOS 188650 | SCH 180388 | 1.1          |                 |           |  |                | 108 <div>52</div>                    | 107 <div>61</div>                   | 79 <div>52</div>             | 105 <div>42</div>              | 101 <div>43</div>                 | 99 <div>46</div>            | 112 <div>27</div>              | 98 <div>42</div>             |  |
| 6                             | ISHA250071 | 250071   | MS 200305  | SCH 180388 | 1.5          |                 |           |  |                | 105 <div>49</div>                    | 96 <div>50</div>                    | 107 <div>44</div>            | 97 <div>38</div>               | 96 <div>35</div>                  | 97 <div>40</div>            | 100 <div>21</div>              | 92 <div>36</div>             |  |
| 7                             | ISHA250072 | 250072   | BOS 177663 | OKT 160008 | 0.0          |                 |           |  |                | 96 <div>60</div>                     | 113 <div>60</div>                   | 91 <div>56</div>             | 94 <div>41</div>               | 93 <div>41</div>                  | 93 <div>48</div>            | 101 <div>26</div>              | 89 <div>44</div>             |  |
| 8                             | ISHA250090 | 250090   |            | BOS 211378 | 0.0          |                 |           |  |                | 99 <div>46</div>                     | 95 <div>34</div>                    | 105 <div>30</div>            | 102 <div>16</div>              | 91 <div>26</div>                  | 91 <div>28</div>            |                                |                              |  |
| 9                             | ISHA250097 | 250097   |            | OKT 230515 | 0.0          |                 |           |  |                | 107 <div>50</div>                    | 94 <div>32</div>                    | 94 <div>26</div>             | 112 <div>17</div>              | 86 <div>18</div>                  | 90 <div>27</div>            |                                |                              |  |
| 10                            | ISHA260007 | 260007   | BOS 188154 | BOS 188509 | 0.5          |                 |           |  |                | 85 <div>55</div>                     | 113 <div>60</div>                   | 83 <div>56</div>             | 100 <div>32</div>              | 105 <div>42</div>                 | 95 <div>46</div>            | 95 <div>30</div>               | 90 <div>43</div>             |  |
| 11                            | ISHA260016 | 260016   | BOS 188154 | BOS 199348 | 6.8          |                 |           |  |                | 80 <div>55</div>                     | 115 <div>60</div>                   | 84 <div>57</div>             | 93 <div>36</div>               | 110 <div>45</div>                 | 96 <div>47</div>            | 94 <div>32</div>               | 91 <div>44</div>             |  |
| 12                            | ISHA260021 | 260021   | BOS 188154 | BOS 199348 | 6.8          |                 |           |  |                | 80 <div>55</div>                     | 115 <div>60</div>                   | 84 <div>57</div>             | 93 <div>36</div>               | 110 <div>45</div>                 | 96 <div>47</div>            | 94 <div>32</div>               | 91 <div>44</div>             |  |
| 13                            | ISHA260026 | 260026   | WO 220493  | MS 210032  | 0.4          |                 |           |  |                | 102 <div>58</div>                    | 104 <div>45</div>                   | 103 <div>37</div>            | 96 <div>22</div>               | 95 <div>30</div>                  | 99 <div>36</div>            |                                |                              |  |
| 14                            | ISHA260034 | 260034   |            | RLR 210037 | 0.0          |                 |           |  |                | 105 <div>51</div>                    | 102 <div>34</div>                   | 99 <div>28</div>             | 117 <div>22</div>              | 82 <div>22</div>                  | 98 <div>29</div>            | 75 <div>20</div>               | 89 <div>27</div>             |  |
| 15                            | ISHA260129 | 260129   |            | MS 220147  | 0.0          |                 |           |  |                | 97 <div>51</div>                     | 100 <div>34</div>                   | 95 <div>30</div>             | 101 <div>16</div>              | 94 <div>23</div>                  | 90 <div>29</div>            |                                |                              |  |
| 16                            | ISHA260131 | 260130   |            | MS 200252  | 0.0          |                 |           |  |                | 103 <div>32</div>                    | 90 <div>32</div>                    | 109 <div>29</div>            | 110 <div>11</div>              | 88 <div>21</div>                  | 94 <div>24</div>            |                                |                              |  |
| 17                            | MS 250272  | MS250272 | WO 170908  | MS 180114  | 4.5          |                 |           |  |                | 97 <div>65</div>                     | 96 <div>67</div>                    | 104 <div>56</div>            | 94 <div>36</div>               | 107 <div>44</div>                 | 97 <div>50</div>            | 103 <div>21</div>              | 93 <div>44</div>             |  |
|                               |            |          |            |            |              |                 |           |  |                | ★★★★☆                                |                                     |                              |                                |                                   |                             |                                |                              |  |
| 1                             | ISHA250025 | 250025   | BOS 177663 | MS 210026  | 0.0          |                 |           |  |                | 98 <div>60</div>                     | 102 <div>54</div>                   | 98 <div>44</div>             | 93 <div>33</div>               | 82 <div>37</div>                  | 81 <div>42</div>            | 98 <div>23</div>               | 78 <div>38</div>             |  |
| 2                             | ISHA250052 | 250052   |            | BOS 199340 | 0.0          |                 |           |  |                | 99 <div>23</div>                     | 96 <div>34</div>                    | 101 <div>32</div>            | 108 <div>19</div>              | 85 <div>27</div>                  | 89 <div>25</div>            |                                |                              |  |
| 3                             | ISHA260126 | 260126   |            | MS 190159  | 0.0          |                 |           |  |                | 105 <div>36</div>                    | 92 <div>35</div>                    | 97 <div>36</div>             | 101 <div>15</div>              | 95 <div>25</div>                  | 89 <div>27</div>            |                                |                              |  |

|                     | EBVi                  | Description / Measurement                                                                            | Goal                           | Low Value      | High Value     |
|---------------------|-----------------------|------------------------------------------------------------------------------------------------------|--------------------------------|----------------|----------------|
| Selection Values    | Calving Ease Value    | Difficult calving due to high birth weight                                                           | Average birth weight           | High           | Low            |
|                     | Calf Growth Value     | Calf's genetic ability for prewean growth                                                            | Heavy weaner                   | Light          | Heavy          |
|                     | Milk Value            | Cow's genetic mothering and milking ability                                                          | Enough milk for calf           | Less           | More           |
|                     | Maintenance Value     | Maintenance requirement of cow (weight and milk)                                                     | Low cow maintenance            | High           | Low            |
|                     | Fertility Value       | Fertility and retention of cows and heifers                                                          | Fertile cows                   | Low            | High           |
|                     | Cow Value             | Combination of calving ease, calf growth, milk, maintenance and fertility values (Rand-value per Ha) | Profitable cows                | Loss           | Profit         |
|                     | Weaner Calf Value     | Heavier weaners and more milk, with lower birth and cow weights                                      | Heavy weaner                   | Light          | Heavy          |
|                     | Growth Value          | Efficient growth on veld and in feedlot (Rand-value per animal)                                      | Profitable growth              | Loss           | Profit         |
|                     | Production Value      | Combination of Cow- and Growth Values (Rand-value)                                                   | Profitable animals             | Loss           | Profit         |
|                     | Carcass Value         | Meat on carcass (Weight and RTU EBVs)                                                                | Meat on carcass                | Less           | More           |
| Birth               | Cow weight - birth    | Cow weight at birth of calves                                                                        | Mature cow weight              | Light          | Heavy          |
|                     | Birth weight direct   | Birth weight (Calf's genetic ability)                                                                | Average birth weight           | Heavy          | Light          |
|                     | Cow-Calf birth        | EBV Birth dir / EBV Mature cow weight                                                                | Average                        | Low            | High           |
| Wean                | Cow Weight wean       | Cow weight at weaning of calves                                                                      | Mature cow weight              | Light          | Heavy          |
|                     | Weaning weight direct | Weaning weight (Calf's genetic ability)                                                              | Heavy weaners                  | Light          | Heavy          |
|                     | Weaning weight mat    | Weaning weight (Dam's genetic ability)                                                               | Good mothers                   | Poor           | Good           |
|                     | Cow-Calf Wean         | EBV Wean dir / EBV Mature cow weight                                                                 | High cow-calf ratio            | Low            | High           |
| Growth & Adaptation | Post-Wean weight      | 12- and 18mth weights                                                                                | Post-wean growth               | Low            | High           |
|                     | Ave. Daily Gain       | Average daily gain in growth test (Phase C and D)                                                    | Good growth                    | Poor           | Good           |
|                     | Veld Growth           | ADG on veld (Phase B)                                                                                | Good adaptation                | Poor           | Good           |
|                     | Feed Conversion Ratio | 100g feed intake /g weight gain                                                                      | Feed Efficiency                | Poor           | Good           |
|                     | Final Test Weight     | Final weight in growth test (Phase C and D)                                                          | Heavy Carcasses                | Light          | Heavy          |
|                     | Skin Thickness        | Measured in growth tests                                                                             | Thicker skin                   | Thin           | Thick          |
| Fertility           | Scrotal Circumference | Scrotal circumference in growth test                                                                 | Fertile bulls                  | Less           | More           |
|                     | Heifer Fertility      | Age at first calving                                                                                 | Fertile heifers                | Less           | More           |
|                     | Cow Fertility         | First 3 inter-calving periods (ICPs)                                                                 | Fertile cows                   | Less           | More           |
|                     | Longevity             | Retention of progeny                                                                                 | Acceptable progeny             | Poor           | Good           |
| Frame               | Height                | Shoulder / Hip height in growth test                                                                 | Average height                 | Short          | Tall           |
|                     | Length                | Length in growth test                                                                                | Longer (more meat)             | Short          | Long           |
|                     | Length:Height         | EBV Length / EBV Height                                                                              | Longer, not higher             | Less desirable | More desirable |
| Carcass             | Eye Muscle Area       | RTU Eye muscle area                                                                                  | Muscle in carcass              | Small          | Big            |
|                     | Fat                   | RTU P8 Backfat Thickness                                                                             | Carcass quality & adaptability | Thin           | Thick          |
|                     | Marbling              | RTU % Marbling                                                                                       | Juicy meat                     | Low            | High           |
|                     | Dressing%             | Carcass weight / Live weight                                                                         | High dressing %                | Low            | High           |

## Notes on the interpretation of EBVs, EBVi's, sub-values and selection values

**EBVi (EBVindex)** is the breeding value index and is easier to interpret than the breeding value, especially for commercial farmers buying from stud farmers. The base of a breeding value index is 100, which is the average of all the live animals in the breed, and all values are expressed relative to this value. Values above 100 are always in a more desirable direction: an index of 105 for AFC indicates a genetic potential to calve earlier. Note that a very high index is not always desirable. For certain traits, such as birth weight, average values can be better.

**EBV: (Estimated Breeding Value)** indicates the genetic potential of the animal for a specific trait. It is presented in the unit of measurement and relative to the average of animals born in the base year (1990 for most breeds and traits). Higher values for certain traits are better while lower values for other traits are better, for example, an EBV of -2 for AFC (age at first calving) indicates that the animal has the genetic potential to calve 2 days earlier than the average heifer in 1990 (the base year). Earlier calving is better and therefore low breeding values (high breeding value indices) are better. For weaning weight, higher values are better.

**Sub-values** combine similar breeding values in a scientific manner to simplify the selection of animals. For example, AFC (age at first calving) and ICP (inter-calving period) are combined to form the sub-value Fertility by taking the heritability and economic importance in consideration. The sub-value is expressed in an index format, thus an animal with a sub-value of 110 for Fertility will genetically be above average compared to the live animals in the breed.

**Selection Values (Cow Value and Growth Value)** combine the sub-values into a single value. This gives a quick and easy indication of the combined genetic value of an animal compared to the breed. It is advised to still look at the sub-values to see where the strengths and weaknesses lie.

### How to use breeding values to select animals

Selecting animals on breeding values is easy if you know how. There is a common saying that “good nutrition can mask poor breeding”. This is very true. If an animal that is genetically inferior is fed well, it can appear as a great animal. This great performance will not be passed over to future generations. An animal that is genetically superior can appear to be inferior if its environment did not allow it to reach its true potential. It is best to select animals that are most adapted to the environment and can reach their full potential. To continuously adapt the environment to the animal can be expensive.

The reason why the use of breeding values is such a valuable tool is because it “removes” the environmental effect that contributes to the performance.

Scientific methods are used to determine how much of the performance is due to genetics and to identify genetically superior animals. This involves the measurement of animals under controlled environments, complete record keeping and pedigree information. *If performance recording and pedigree information are not done correctly, breeding values of these animals will not be useful.* Keep in mind that breeding is a long-term option: the effect of a bull selected/bought today will only show much later. If it is a good decision, his daughters will become part of the breeding herd and contribute to overall profitability in future.

Even if a bull is not perfect in all aspects, knowing the shortcomings will allow strategic selection with suitable cows. Traits are genetically correlated, meaning that a change in one trait can lead to a change in another. This change can be favourable or unfavourable. An increase in weaning weight can lead to an increase in birth weight, which can lead to calving difficulty. It is therefore advisable to not only select on a single trait. Take other traits in consideration to avoid negative effects.

### How to improve the herd genetically

The first and most important aspect is to know what type of animal will improve the herd genetically. This can be determined through the following factors:

**What happens to the calves?** For example: used as replacement heifers, sold as stud animals or sold to commercial breeders who sell weaner calves.

**How much feed is available?** The availability of feed (or the hardness of the environment) determines the optimal frame size. If feed is abundant and the environment is less harsh, larger animals would be ideal. If not, medium framed animals would be ideal.

**What is the genetics of the cow herd?** Are they the wrong frame type, grow too slowly, do not have enough milk, etc.? Always aim to breed a calf that is superior to its dam.

### Conclusion

Different types of bulls are suitable for different types of cows, environments and breeding objectives. Inbreeding should be avoided or limited as much as possible. Mating programs are available to aid in the pairing of bulls and cows.

*The data used for this evaluation is pedigree information and performance data found on LOGIX as provided by breeders. All attempts are made to present accurate information. SA Stud Book takes no responsibility for the use and interpretation of information presented in this report.*



